SCHOOL EFFECTIVENESS AND LEARNER ACHIEVEMENT

A BASELINE ASSESSMENT STUDY OF PRIMARY SCHOOLS IN ORISSA

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FOREWORD

The focus of the Baseline Assessment Study, conducted by the Directorate of Teacher Education and SCERT, Bhubaneswar, is on the existing state and status of primary schools and levels of learner achievement in the five DPEP districts of Orissa: Balangir, Dhenkanal, Gajapati, Kalahandl, and Rayagada. The study covers a wide spectrum of static and dynamic variables that have tremendous bearing on school effectiveness and learner achievement. The findings of this study will provide the basis for planning DPEP interventions.

I am sure the strategies that would be adopted will be realistic and pragmatic and will lead to realising the holistic concept of universalisation of elementary education.

(D. N. Padhi

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ACRONYMS

BAS - Baseline Assessment Study

BEO - Block Education Officer

CRC - Cluster Resource Centre

DIET - District Institute of Education and Training

DPEP - District Primary Education Programme

EFA - Education For All

GOI - Government of India

MHRD - Ministry of Human Resource Development

MLL - Minimum Levels of Learning

NCERT - National Council of Educational Research and Training

NFE - Non-Formal Education

NPE - National Policy on Education

OBC - Other Backward Caste

POA - Programme of Action

SC - Scheduled Caste

SCERT - State Council of Educational Research and Training

ST - Scheduled Tribe

UEE - Universalisation of Elementary Education

UPE - Universalisation of Primary Education

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CHAPTER I INTRODUCTION

- ♦ TOWARDS UNIVERSALIZATION OF ELEMENTARY EDUCATION
- ♦ QUANTITY, QUALITY AND EQUITY
- **♦** THE PROBLEM
- ♦ METHOD

CHAPTER I

INTRODUCTION

1.1 Towards Universalisation of Elementary Education

The developing countries, almost without exception, mounted concerted efforts to expand their education systems during the post-War period. By prodigious efforts, they negotiated giant movements in the direction of broadened educational opportunities (Coombs, 1985). The availability of primary education has expanded on a scale remarkable by any standard and reflects the strong determination of the developing countries to provide populations with universal access to schooling (Lockheed and Verspoor, 1991), necessitated by a number of historic reasons : first, the "mounting educational aspirations of parents and their children"; second, the I) eW of public policy everywhere on development of education largely inspired and induced by the theory of "human capital formation"; third, a parallel stress in newly liberated countries on the democratic imperative of increasing educational participation rates; and fourth, population explosion which acts as a quantitative multiplier of the social demand for education. Faced with two equally competing compulsions, namely, to develop and design a homegrown education to suit their specific needs model of circumstances on one hand, and to expand the imported system, hoping in the due course to reorient their country specific circumstances, in response to surge in social demand for education, on the other, their choice for the former arguably took precedence over the latter. Like all other developing countries, India preferred cling to the policy of rapid expansion of its system. The buoyancy for expanding primary school opportunities was so strong that relatively realistic proposal of the Post-War Plan of Educational Development (1944) to universalize elementary education for all children in the age-group 6-14 in a phased programme spread over 40 years (1944-84) was set aside by the Special Committee constituted under the chairmanship of Shri B.G. Kher on the ground of "too long a period" and 1960 was accepted as the time frame to reach the goal (Naik,1975). This recommendation was accepted and incorporated in Article 45 of the Directive Principles of State Policy which laid down that: "the State shall endeavour to provide, within a period of ten years from the commencement of this Constitution, for free and compulsory education for all children until they complete the age of fourteen years." (Constitution of India,1950).

This constitutional mandate and the ambience created by a host of developments with rich promises and prospects during 1980s and first half of 1990s have inevitably lod to spectacular 'simplistic' linear expansion of primary education in India during the post-independence period, To mention a few notable developments, both at the national international levels, that have placed elementary education as "priority of priorities" in the national agenda are : the adoption of National Policy on Education and Programme of Action (1986, later updated in 1992), the World Declaration on Education For All (1990), the Delhi Declaration (1993), the Convention on the Rights of the Child (1989), the 73rd and 74th amendment to the Indian Constitution, launching of Total Literacy Campaigns, etc. All these developments have far-reaching impact on India's endeayour universalisation of elementary education Under their salutary impact, the scale and pace of UEE have assumed, over last and half a decade, impressive one proportions. There has been a very significant increase number and spread of institutions enrolment. The elementary education system of India expanded to be one of the largest in the world. In spite of tremendous expansion of primary education in the country in terms of universal access and provision, the composite concept of UEE still remains an elusive goal ground is yet to be covered (POA, 1992). Brodening the concept of UEE, the NPE (1992) accorded unqualified priority to three mutually reinforcing aspects :(i)universal access and enrolment, (ii) universal retention of children upto 14 years of age, and (111) a substantial improvement all in the quality of education to enable children achieve essential levels of learning. In view of composite perspective of UEE, with exclusion of provision of access, India's achievements in promoting basic educasince independence are considered quite limited by international standards (Dreze and Sen, 1995). The Committee for Review of National Policy on Education, 1990 observed that "the continued failure since independence to fulfil the constitutional directive of providing education to all children upto the age of 14 years is a teasing reality." (P.134)

1.2 Quantity, Quality and Equity

Primary education in India has expanded remarkably in the post-independence period. At present more than 95 percent of rural population has a primary school within a walking distance of one kilometer (NCERT, 1995). number of primary schools increased from 209.7 thousand in 1950-51 to 577 in 1990-91. The gross enrolment (GER) at the primary level increased from 42.6 1950-51 to 102.7 percent in 1991-92. Enrolment primary classes increased from 19.5 million in 1950-51 to around 101.6 million in 1991-92 (Department of Education, 1993). In addition to this, there are around 277 thousand non-formal education centres with an enrolment of around 6.8 million children. During the period 1950-51 to 1991-92, the sheer size of the teaching correse has experienced a substantial bulge. The transition rates reveal that the population of children moving up from primary to upper primary stage has been steadily increasing: from 16.3 percent in 1950-51 to 33.9 percent in 1990-91. Another welcome indicator of quantitative expansion is a sharp decline in the absolute and relative size of non-participants (Department of Education, 1993). On the whole, at an aggregative level the quantitative growth of Indian primary education system in terms of provision of schooling facilities, has been impressive.

Aggregative figures mask gender, caste and location specific disparities that are woefully glaring. Despite tremendous strides in expanding primary education during the last couple of decades, India is still a long way from achieving the goals of UEE. A few of the visible inadequacies and inconsistencies in India's programme for UEE are:

- In spite of the pronounced increase in the GER, the number of children outside the elementary school system is still 19.18 million as compared to 49.18 million in 1951. Improvements in GER do not automatically benefit the disadvantaged groups. Therefore, a sizeable segment of the non-enrolled is represented school-age children from the disadvantaged groups, namely, SCs, STs, girls, and the economically deprived. The problem of non-participation children of 6 to 11 years old will be further exacerbated due primarily to two inevitable positions : first burgeoning child population which is disproportionately large in view of momentum of population growth, and second, challenge of creating extra school places in the face of severe financial crunch.
- The incidence of high dropout rate at the primary and upper primary stages is indicative of the low internal efficiency that afflicts the system.

 Notwithstanding widely varying dropout statistics,

drawn from official and non-official sources, the incidence tends to erode the gains in enrolment. The findings of the forty-second National Survey (July, 1986 - June, 1987), tacitly bring out a stark, however unrelishable, truth that a little over one-fourth of all dropouts in rural as well as urban India reported that they are "not interested education". A recent Unicef document puts primary school dropout rate at 38 percent (Unicef, 1995). The disaggregated dropout rates show that incidence of dropout at class I - V level is the highest for Scheduled Tribe (64.5%), followed by Scheduled Castes (49.6%) and general castes (49.93%). The dropout rates in case of girls is consistently high across all caste groups. This incidence of completion is cognitively unproductive, economically wasteful and costly, and socially unjust inequitous. Low levels of basic education in India reflect both (a) the low duration of schooling for children who are enrolled at some stage, (b) the fact that a large proportion of children arc enrolled at all (Dreze and Sen, 1995).

1.2.1 The Quality Issue

While quantitative expansion is inevitable and desirable, it has given rise to two sets of problems- one related to poor and uneven quality and another of equity. The concept of quality is widely used in education, but often with different meanings. Therefore, it is really difficult to search for a consensus among educationists as to what constitutes quality in primary education. Broadly, the term quality is used to refer to : (i) Characteristics of the factors that go into the education process (ii) aspects of the process itself, or (iii) outcomes of the process.

Differing views on the components of quality of education could mainly be clustered under three groups of correlates, namely, (i) the level of material and human

inputs or the characteristics of factors that go into the education process, (ii) the process itself— i.e, actions involved in school functioning, and (iii) the outcome of the process i.e, learner achievement in terms of their performance capabilities. The nature and extent of interaction between the first two i.e., the inputs and process influence the third, namely, learner achievement (Govinda and Varghese, 1992). The quality of a school or an educational system should, in real sense, be judged in terms of learner achievement, namely, how much and how well the students have acquired the intended curriculum inputs (Dave, 1991). With this framework of the concept of quality of education, it would be worth examining the quality of primary schools in India in its pursuit of UEE.

the baseline assessment studies conducted various states, It has been found that the achievement levels are very low. Most of the students scoring around 40 percent in most of the subjects. Only 30 percent of the students were mastering the competencies. In effect. t.he of the students do not learn at the desired level of competence rendering learning fragile and unsumstainable. The entire system with poor quality therefore, rendered inefficient (Dave, 1995). optimism on account of the expansion of the system diminishes progressively as one moves from enrolment retention and further to levels achievement at the primary stage. Recent on primary education unequivocally reveal a rather low level learners' performance (Bashin et. al,1993; Dave et. al. 1988; Govinda and Varghese, 1993: Jangira 1994; Shukla, 1994; Varghese, 1994). Decrying the load of incomprehension, Prof. Yash Pal observed that "a lot is taught, but little is learnt understood" (P.4). The average performance of the children in grade 5 is barely equivalent to the competencies expected to be achieved at the grade 2. Widespread complaint about end of

declining norms and performance of the formal system of education is very common in India (Yash Pal, 1993).

- physical In terms of and academic infrastructure available in Indian primary schools as correlates of learner achievement, the situation is dismal and discouraging. Inadequate infrastructural inputs are indicative of the poverty of our primary schools as the poverty of learners' as achievement. Even though the situation has improved over the years, in 1986, 13.54 percent of primary schools did not have any building, 29 percent of the only one teacher, 0.42 percent of schools had no teacher and 14 percent teachers did have any professional training.
- Notwithstanding the impressive progress in respect of spatial spread and number of primary schools, the costly phenomenon of dropout and absenteeism, low level of retention and completion rates, and wastage are considerable. It is implicitly evident that serious deficiencies on the supply side of education cripple the system. In terms of internal efficiency and external productivity, the system is operating at a very low level.

1.2.2. UEE - The Equity (ssue

Concomitant to the poor quality in terms of infrastructure and teaching learning process, is the wide variation quality leading to inequitous situation. Inequity exists in all three aspects of UEE: access, retention and achievement. Equity in access is only one aspect educational equity, which also includes equity in process and in outcome (Campbell and Klein, 1982). The National Policy on Education and the Programme of Action (have underlined this dimension of educational development in India. Therefore, the focus is perceptibly shifting from equity in access to equity in retention, and equity in achievement.

The following scenarios, purposively selective, are symptomatic of the educational inequity that exists in different forms. The most obvious of these are : geographic disparities (location), disparities between the sexes, and disparities in socio-economic status. Such inequitous situation is a world-wide phenomenon, not the monopoly of developing countries including India, though the scale of inequity in developing countries is alarmingly perturbing (Coombs, 1985).

Reckoned against any educational indicator, disparities are conspicuous in regard to enrolment, enrolment retention and achievement. Though has experienced almost a eight-fold girls rise over the period 1950-51 to 1991-92, girls account for only 45.7 of percent the enrolment primary stage and a little more than one-third at the upper primary stage. More number of prematurely leave school before completing the fiveyear cycle of primary education. Differences in the achievement of boys and girls become more pronounced higher levels; disparities exist, even at the primary level (Govinda and Varghese, 1993; Lockheed and Verspoor, 1991). These overall national averages mask, however, serious disparit**i**es among states and among disadvantaged social groups within states. This gender disparity accentuated further if one views the population separately. This inequitous siluation stems from the deep-rooted gender apartheid, conservatism of social attitudes and parental inertia. A similar pattern of disparity exists with to enrolment, retention and achievement of learners from the disadvantaged groups such as SCs and STs.

In part, the problem is the exclusion of so many children by barriers of language, tribe, caste, religion, culture, economic class, or geographic inaccessibility.

The traditional response - expanding existing educational systems - fails to recognise that these groups are precisely those who find such existing education systems unsuitable for their needs, their circumstances, their aspirations, and their difficulties. The problem of reaching the unreached will, therefore, not to be solved by more of the same (Unicef,1995).

1.2.3. Concern for Quality

Low retention rates and poor achievement levels of learners are a major cause of concern. Universalization of access, retention and achievement have been viewed as joint and inseparable concerns (Framework for EFA Action, 1990). This concern is, in a way, an endorsement of NPE and POA (1992)'s overriding priority accorded to the extended concept of UEE which combines access, retention and quality (NPE, 1986). This concern has been expressed, in no uncertain terms, in the form of a "resolve".

"It shall be ensured that free and compulsory education of satisfactory quality is provided to all children upto 14 years of age before we enter the twenty-first century" (NPE, 1986 P. 20).

Concern for improving the quality of basic (primary) education is based primarily on two predominant premises: first, it is at the primary level where children develop their basic attitudes and approaches to learning; and second, it is a pre-requisite for developing demands of time and circumstances. The concern have been expressed in a number of national and international educational policy documents:

The International Commission on Development Education (1972) laid stress on both quantitative qualitative dimensions of education which recommended for "more than before", "better before", and different than before"

The later two expressions reflect an argo and intent for quality improvement.

- The need to lay down Minimum Levels of Learning (MLL) emerges from the basic concern that irrespective of caste, creed, location, or sex, all children must be given access to education of a comparable standard (POA,1992).
- "For basic education to be equitable, all children, and adults must be given the opportunity achieve and maintain an acceptable level learning The focus of basic education must, therefore, be on actual learning acquisition outcome, rather than exclusively upon enrolment, continued participation . . . and completion certification requirements".(World Declaration on Education For All, 1990, p.5)
- Recognising that children who complete the primary cycle do not always master essential learning and life skills, the Delhi Declaration (1993)affirmed that they will improve the quality and relevance of basic education programme

It was the National Policy on Education (1986) that kept the issue of UEE in focus and instiated significant changes in our endeavour towards achieving UEE, It was, however, felt that investments to improve quality oſ education is more equity-oriented than investments to improve access and retention. With this realization from the mid-eighties onwards, what has happened in India precisely is a shift in emphasis from equity in access to equity in achievement (Varghese, 1995). The issue of quality being at the centrestage four major quality initiatives that were launched after 1986 are :

(i) the Operation Blackboard (OB) scheme which intended to create visible improvements in existing infrastructural facilities with an explicit intent to enhance the quality of teaching-learning process;

- (ii) defining the Minimum Levels of Learning (MLL) to be achieved practically almost by all primary school children with emphasis on twin issues of quality and equity;
- (iii) establishment of District Institutes of Education and Training (DIETs) to improve teacher competency and teaching-learning process through strengthening the inservice component of teacher training; and
- decentralization of educational planning and manage-(iv) ment to make educational planning bottom-up rather than top-down, need-based, target oriented, and ınitiatives have, These policy participatory. years, demonstrated perceptible during the recent improvements in the quality dimensions of primary education in the country. Prioritising investment decisions and intervention strategies to quality in primary education requires an information base regarding variables, both "within-school" and influence "outside-school" that school quality studies done learner achievement. Research the area at the national and international in level provide extensive and varied empirical evidence on correlates of school effectiveness and learner achievement.

1.2.4. Empirical Base of School Quality and Learner Achievement

Over the years, a considerable amount of research evidence has been generated on school quality, levels of learner achievement, mainly in terms of their correlates (Varghese, 1994). From the wavelength of studies conducted in the area, the factors influencing learner achievement can broadly be clustered under three groups : (i) family/home background factors; (ii) school related factors; and (iii) individual related factors (Buch and Buch, 1982; Downey et.al, 1993; Fuller, 1986 and 1990; World Bank, 1991). A brief but comprehensive presentation of major findings of studies conducted on the these i.e., correlates of school quality and learner attainment will afford us invaluable insights into factors that really affect the quality of learner achievement. An attempt has, therefore, been made to scan across studies, conducted in India and abroad, and pull together the findings under two broad groups "outside school" factors, and "within school" factors.

1.2.5. Outside school factors

Outside school factors include a broad range of variables such as socio-economic background of families the learners come from, home support system, educational policy decisions, locus of decision-making in the family, prior learning experience, the health and nutritional status of the children, etc.

Many of the major studies of the sixties the Coleman Report (Coleman et.al, 1977) in the United States and the Plowden Report (1976) in the United Kingdom revealed that neither schools nor the human and material resources in them make a difference in learners' academic achievement. The only factors that accounted for variations in test scores were family, socio-economic status, and the learners' locus of control. Heyman and Loxley (1983) observed that home background factors are more important and reliable in predicting learners achievement developed world, not in the developing countries. the various family background characteristics the studies examined, parents' social class, education and occupation and family environment are found to be signigicantly correlated with academic achievement (Govinda and Varyhese, 1993). Data from the Philippines indicate that the occupational and educational level of the parents has shaped the school attainment of their children, with the same level of magnitude, since the early twentieth century (Smith and Cheung, 1986).

Several studies have explored the relationship between children's nutritional status and school indicators such as age at enrolment, grade attainment, absenteeism, achievement test scores, general intelligence and performance at selected cognitive tasks, including concentration in the classroom. All nine studies reviewed by Pollitt (1990) reported a significant relationship between protein-energy nutritional status and cognitive test scores or school performance in China, Guatemala, India, Kenya, Nepal, the Philippines, and Thailand.

Pre-school experience has a modest but positive influence on initial adjustment to the demands of primary school in developing countries (Halpern and Myers, 1985). The scattered studies from other developing countries confirm this picture (Kagitcibasi, 1983). Pre-school education seems to give an initial advantage to learners as they are likely to have already acquired some literacy and numeracy skills (Govinda and Varghese, 1993).

1.2.5. "Within-school" Factors

"Within school" variables that affect school quality and student learning cover a broad range of inputs and resources, and process variables. Contrary to the findings of Coleman (1996)'s earlier study that relied on static variables and between school differences, it was eventually recognised that "within school" differfor much more variation account in scores than do between school differences and that dynamic much more influential than variables are are variables (Dawney et. al, 1993). In a second Coleman focussed on within - school and dynamic variables and found that schools and their strategies for using resources do indeed account for a great deal of variation in student achievement scores (Coleman, Hoffer, Kilgore, 1981). A large number of studies in the developing

countries have consistently demonstrated that availability instructional materials positively influence learner achievement. Developing countries in order to improve their effectiveness and learners' school achievement, include policy interventions in five principal areas improving the curriculum, (b) increasing learning material, (c) increasing instructional time, (d) improving teaching, and (e) increasing the learning capacity of students. In developing countries, the evidence is growing that these school-based interventions raise student achievement (Lockheed and Verspoor, 1991). The infrastructure seem to have a close correlation learner achievement as one moves from least facility schools (Govonda and Varghese, 1993). Internal World Bank from the Philippines suggest that the number of students completeing the primary grade cycle increases the school environment improves, as measurely the average cognitive achievement of pupils, especially the Researchers have found that availability of lextbooks and instructional materials has a consistently positive effect on student achievement in developing countries (Heyremanm Farnel, and Sepulveda-Stuando, 1991).

The academic and professional training of teachers has a direct and positive bearing on the quality of their performance and consequently on the achievement of students and Haddad, 1981; Gusen, Saha, and Noonan,1978; Schiefeibein and Simmons, 1981). In some countries teacher training clearly makes a difference for student learning, in other, it does not (Fuller, 1987; Lockheed and Komenan, 1989). Govinda and Varghese (1993) in their study primary schools in Madhya Pradesh found that irrespective of level of academic qualifications they possess, teachers with professional training in teaching perform significantly better in terms of learning outcome of their students.

Research from a variety of countries has shown that the amount of time available for teaching and learning

academic subjects, and how well that time is used by students and teachers, is consistently related to how much children learn while they are in school. In India, Iran, and Thailand students learned more science when the amount of time spent on instruction and reading increased (Heyreman and Loxey, 1983).

discussion on the school quality the learner achievement, it could be concluded that the "withinschool" factors such as curricular inputs, teaching learning process, organisational climate, time management, teachers professional training, etc. play a significant role in determining and predicting learner achievement. Teachers policy makers manipulate the "malleable" variables which include almost all in-school factors to effective teaching-learning and consequently, better learner Therefore, initiatives and actions achievement. improving student learning should largely take into account the "malleable" variables. In other words, the prospects of improving student learning continues to be within the purview of the school.

1.3. The Problem

In the endeavour towards actualizing universalization of elementary education quantitative expansion in terms of enrolment, number of schools and teachers have been phenomenal in the last four decades. But as discussed in the sections, the two other aspects of retention and universalization of high quality of education continue to elude the planners and administrators. numerical expansion of enrolment and schools without serious problems. high The dropout in the primary classes have greatly neutralised the increase in enrolment and the expansion of schools has not supported by minimum infrastructural facilities most cases. Again, regional disparities in these parameters of primary schooling are also glaring. The backward regions continue to be hehind the mainstream in spite of several efforts like Total Literacy Campaigns and Education For All programmes.

The District Primary Education Programme (DPEP) has been proposed as an integrated approach to co-ordinate, consolidate and accelerate the quantitative as qualitative aspects. The national experience is that well needs to be contextual i.e., to fulfil the local specific needs entailing local area planning with disaggregated targets and decentralized planning and management ment of Education, 1995). Precisely the overall goal of DPEP envisaged as the "reconstruction education as a whole in selected districts instead of 01 primary piecemeal implementation of schemes. An integrated approach likely to achieve synergies among different programme components"(POA, 1992, p. 37).

As discussed earlier in this chapter, quality of education stems from the quality of achievement learners who constitute the focal point in system. Teachers, teaching methods, home and school environany learning ment, infrastructural facilities act as facilitators learners' achievement. Therefore, before launching programme, detailed and comprehensi've learners characteristics, and their existing levels of picture attainment and all information regarding the facilitators of learning must be made available for systematic and effective planning and implementation of programme. Keeping these in view this Baseline Assessment Study (BAS) conducted in the five districts of Orissa State which were identified as educationally backward viz. Bolangir, Dhenkanal, Gajapati, Kalahandi and Rayagada.

This Baseline Assessment Study has sought to answer the following research questions regarding the quality of schooling and learner achievement in the context of the five educationally backward districts of Orissa.

- What are the existing levels of learning achievement of children in primary schools?
- Can the difference in learning achievement be attributable to disparity in gender, caste and locality?
- What are the factors, personal or environmental (home and school) that influence the learners' attainment?
- What are the factors responsible for learners to drop out of the system ?
- What makes schools differ in the degrees of their effectiveness?

1.3.1. Objectives of the study

Since marks on achievement tests have been universally used as a basic indication of quality of school education, the main purpose of this study was, therefore, to assess the attainment levels of the learner of primary schools. Further, as the primary school curriculum is intended to develop competencies in two major areas i.e. in language and mathematics, the learners' achievement levels have been sought to be ascertained in these two areas.

The primary schools in Orissa, as in other states of India, consist of classes from I to V. The achievement levels of the learners towards the end of class-V logically provides the basis for judging the school effectiveness and as such the main objective of this study was to assess the achievement in language and mathematics of students continuing in class-V.

It is presumed that the performance at the beginning of primary schooling may act as predictor of achievement at the class-V level and thus can act as an explanatory variable in the analysis of class-V results. Hence it was thought proper to assess performance in basic skills of literacy and numeracy after the completion of 1st year of schooling.

The scores on achievement tests were then analyzed to explore the intraindividual difference in terms of gender, location (urban or rural) and caste (SC,ST,OBC and others).

While analyzing the achievement scores to assess the quality of learning, the factors influencing learning namely, personal, school and family variables have also been the targets of the probe in this study.

The premise that personal, and environmental factors influence learning might help to answer the question as to why some learners leave the school prematurly. This was another objective of this work.

Besides ascertaining the quality of learning outcomes in the schools and the factors influencing such outcomes, collecting data concerning various aspects of schooling like, enrolment, attendance, dropout, and repetition rates, school facilities, availability of educational materials in school, teacher characteristics, teaching process which would be useful to the educational planners, managers and researchers have also been aimed at through this piece of work.

In brief, the major objectives of this Baseline Assessment Study in the context of Orissa are :

- to measure the levels of learners' achievement at the primary levels of education in language and mathematics;
- to examine the differences among the students of primary schools due to gender, location, caste variations;
- to identify and analyze the factors that influence learner achievement;
- to examine the influence of family & school factors responsible for learners to dropout of the school:
- to assess the status and functioning of primary schools; and
- to probe into the factors contributing to the school affectiveness.

1.4. Method

Five revenue districts of Orissa State viz, Balangir, Dhenkanal, Gajapati, Kalahandi and Rayagada were selected for the implementation of the DPEP on the basis of educational backwardness, low female literacy rate and high concentration of socially disadvantaged populations.

Since school was the basic unit of the study, all the types of primary schools in these districts constituted the population from which samples were drawn.

1.4.1. Sample

The study was aimed primarily at studying the learner achievement in the context of schooling. Therefore, the types of groups constituting samples must include all the personels related to the school learning namely, types of schools, learners, dropouts, and teachers. The sampling, therefore, was done at three levels after the identification of the districts, utilising multistage random sampling procedure.

At the first level 20% of the blocks and urban conglomerations from each district were selected using the following criteria:

- 1. District having 1-10 blocks, two to be selected.
- 2. District having 11-20 blocks, three to be selected If a district had a tribal block, it was to be included in the sample.

The criteria of selection of urban areas were

- Districts having 1-10 urban areas, two to be selected.
- Districts having 11-20 urban areas, three to be selected.

Following the random sampling procedure, the blocks/ urban areas from the five districts were selected as shown in Table 1.1.

Districtwise Distribution of Sampling Units (Orissa). Table 1.1

							20
Total	Urban Areas	14	60	9609	16	m.	10
<u></u>	Block	53	13	9	178	3 18	1036
gada	Urban Areas	03	02	1239			33
Ravagada	Block		03	-	32	0 6	,= 83 = -
Kalahandi	Urban Areas	03	02	1450	20	2 8	6 2 0
Kalat	Block	13	03	, -	40	2	Ü
Gajapati	Urban Areas	02	01	794	04	41	gi Gi
Gaj	Black	20	02	, <u>, , , , , , , , , , , , , , , , , , </u>	8	4) 4)	() ()
Dhenkanal	Urban Areas	03	02	911	603	8 2	(C) (C) (C)
Ohe	Block	608	02		32		Ö
Balangır	Urban Areas	60	02	1702	02	φ	r)
Bał	Block	14	03	<u></u>	43	26	10 55
1		Blocks/Urban Areas	Sampled Blocks/Urban Areas	Total Number of Schools in the district	Sampled Schools	% Sampled Schools to the Number of Schools in the District	% Urban Population (1991 Census)

The schools were then selected from the sampled blocks/urban areas. Approximately, three percent of the total number of schools in a district, subject to a minimum of 35 and maximum 45 schools, were chosen from the identified areas. The rural,— urban dichotomy in the selection of schools was made in the proportion of the populations in the blocks and urban areas of the district. The following procedure was followed in sampling the schools in the blocks:

- 1. The schools in the urabn areas, if any, were removed from the list of schools in a block.
- 2. The schools were then arranged in alphabetical order.
- Required number of schools were then selected using random number table.
- 4. A replacement list of 10 schools in case of need for substitution during data, collection was also prepared for each block.

The criteria of selection of schools from the urban areas are as follows:

- The number of schools to be selected from each
 of the sampled urban areas was determined on
 the basis of the proportion of their populations.
- The names of the schools in each of the sampled urban area was arranged in alphabetical order.
- 3. The schools were chosen using random numbers.

However, the schools in the headquarters of these districts were excluded from the sample of urban schools.

At the third stage, the students of classes 5 and 2, dropouts and teachers were selected from sampled schools. For this purpose, the schools were divided into two categories on the basis of class size i.e. high and low enrolment categories with 30 pupils in the class 5 of the school constituting the baseline. In case of schools with low

enrolment (i.e. less than 30 students in class 5), all the students were included in the sample and in schools with high enrolment only 30 students were selected using random start procedure. The same procedure was followed in the selection of class 2 pupils with a class size of 20 students forming the baseline.

However, the low enrolment schools which had three or less number of students in the rolls of class 5 or class 2 were dropped from the sample and were replaced by schools from the list of replacement schools randomly.

In each of the sampled schools at least five students who were enrolled in class 5 but have discontinued their studies for more than three months from the date of survey in the school were selected as dropouts. The help of the teachers teaching in class 5, the students in the class and the school records was taken in identifying these samples of dropouts.

Finally, teachers from each of the sampled schools were selected as per the following criteria:

- (i) Headmaster/Headmistress and the teacher(s) teaching in class 5 were included without exception.
- (ii) The school in which there are five or less number of teachers, including the Headmaster/Headmistress all of them were selected.
- (iii) Where the number of teachers exceeded five, four teachers, excluding Headmaster/Headmistress were selected using random number tables. Care was taken not to exclude the teacher(s) teaching in class 5.
- (iv) Care was taken to ensure the inclusion of atleast one lady teacher, if available, in the sample.

Out of total 53 blocks and 14 urban areas in the five project districts 13 blocks and 9 urban areas were selected following the procedure mentioned above. The survey was conducted in 196 schools in the selected areas.

From these schools 513 teachers including head teachers, were interviewed. 1801 class 5 students, 2125 class 2 students and 358 dropouts were selected as samples for this study. The genderwise, locationwise and blockwise distribution of the participants are presented in Tables 1.2,1.3 and 1.4 respectively.

1.4.2 Instruments

Two groups of tools were employed for collection of data in this Baseline Assessment Study which are:

- Tests of achievement to assess the levels of attainment in language and mathematics of the students of class 5, in literacy and numeracy of class ? students and dropouts.
- Schedules for collecting information from sample schools.

Achievement Tests

Four tests of achievement developed and standardized by NCERT for the use in the countrywide survey on Primary School Attainment conducted in March, 1991 were used in this Baseline Assessment Study after suitable modification and adoption into Oriya, the language used in the state of Orissa. The following is the brief description of the tests.

NCERT Class 5 Language Assessment Test (LAT)

It was a parallal version of NCERT's test, based on class 5 syllabus on Oriya Language. The test contained 84 items which were divided into two sections. The first section, Word meaning section, constituted of 40 items with equal number of antonyms (WMA) and synonyms (WMS) (Table 1.5). The second section, intended to assess reading comprehension, had 44 items presented in multiple-choice format to measure pupils' understanding of meaning of words and sentences (RCM) and passages of factual details (RCF), drawing inferences (RCI) and identifying central ideas (RCC). The items were arranged in order of increasing

Table 1.2
Districtwise and Genderwise distribution of total Sample.

	Class	5	Class 2		Drop Outs		Teachers	
District	М	۴	М	F	М		М	
Balangır	255	107	230	201	68	62	ยย	26
Dhenkanal	285	244	298	225	50	27	7/	25
Gajapali	164	72	215	117	20	14	65	33
Kalahandi	185	97	239	159	47	32	81	19
Rayagada	267	125	2/7	164	32	46	87	22
TOTAL	1156	645	1259	866	217	181	398	125

Table 1.3

Districtwise Distribution of Total Sampling (Students and Teachers)

District	Cla	ss 5	Cla	ss 2	Drop	Oul	Tend	hers	No Sch	
District	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Nural	Urban
Balangir	270	92	358	73	129	14	99	15	42	3
Dhenkanal	378	151	467	56	75	2	89	13	32	3
Gajapali	180	56	280	52	32	5	82	16	31	4
Kalahandi	244	38	365	33	91	2	92	8	40	2
Rayagada	318	74	381	60	69	9	89	20	32	5
Total	1390	411	1851	274	396	32	451	72	177	17

Table 1.4

Blockwise Distribution of Total Sample

District	Block	Schools	Class V	Class II	Dropouls	Teachers
<u> </u>	Urban Areas	3	108	73	()	15
Dalanan	Palnagarh	16	87	165	59	43
Balangır	Puintala	13	71	97	28	24
	Saintala	13	96	96	34	30
	Urban Areas	3	58	56	2	13
Dhenkanal	Hındoı	19	322	307	46	54
	Kandadahad	13	149	152	29	34
	Urban Areas	4	56	. 52	5	16
Gajapati	Paralakhamundi	14	96	146	17	43
	R Udagagıri	17	84	134	12	3 9
	Urban Areas	2	0	33	2	В
	Langarah	11	58	98	20	20
Kalahandi	Kokasara	11	103	105	32	24
	Bhawanipalna	18	121	162	25	48
	Urban Areas	5	0	60	9	20
Dayagada	Muniguda	9	81	100	18	26
Rayagada	Gudarı	13	106	146	24	37
	Kolanara	10	125	135	27	21

Table 1.5
Profile of Class-5 Language Test.

	ltems	
	Antonyms (WMA)	22
Word Meaning	Synonyms (WMS)	18
	Total	40
	Meaning of words/ sentences (RCM)	5
Reading	factual Details (RDF)	24
Comprehension	Inferences (RCI)	13
	Title/Central Idea (RCC)	5
Total Re	44	

difficulty. Correct response to each item was scored 1 mark.

NCERT Class 5 Mathematics Achievement Test (MAT)

This is a modified version of NCERT's test based on mathematics syllabus for class IV consisting of 40 items presented in multiple-choice format. These items were intended to measure the pupils' understanding of four fundamental operations—decimal and fractional number, multiples, unitary method, measurement of time, weight & measures and fundamental concepts of geometry (Table 1.6). Items, in this test, were also arranged in the ascending order of difficulty. Correct response to each item was awarded 1 mark.

NCERT Class 2 Achievement Test

test on literacy and numeracy based on competencies expected to be acquired by the end of class 1. The literacy test consisted of reading 10 letters in Oriya alphabets and 10 words of Oriya language (Table 1.7). The numeracy test contained 14 items which included 6 items for recognizing smaller and larger numbers in a pair of one and/or two-digit numbers, addition of two one-digit numbers (4 items), and substraction involving two one-digit numbers (4 items) (Table 1.8).

Literacy and Numeracy Test for Dropouts

This is the shortest among the four tests used in this study consisting of eight items on simple comprehension and equal number of items on four fundamental operations involving two one- and/or two-digit numbers. The section developed for assessing literacy required the dropout to read eight simple sentences in Oriya of four to ten words each followed by eight multiple-choice items to test simple comprehension (Table 1.9). The items were based on content in no way higher than those of class 2 standard as it was assumed that achievement level of dropouts

Table 1.6
Profile of Class-5 Mathematics Test.

Content Area	No. of Items
Number Reading/Recognition	00
Place Value	00
Addition	01
Subtraction	01
Addition and Subtraction	02
Multiplication	03
Division	02
Multiplication and Addition	00
Weights and Measures	OE,
Time	03
Fraction	06
Geometry/Shapes	05
Decimals	06
Multiples	07
Unitary Method	02
Total	40.

Table 1.7
Profile of Class-2 Literacy Test.

	Area	lloms
	Simple letter	09
A Letter	Sanyukt (Complex) letters	01
Reading	Total	10
	Words beginning and ending with letter without 'matra'	02
B Word Reading	Words beginning with letter without 'matra' and ending with letter with 'matra'	
	Word beginning with letter 'matra' and ending without 'matra'	()6
	Word beginning with letter 'matra' and ending with letter with 'matra'	01
	Total	10

Table 1.8
Profile of Class-2 Numeracy Test.

Area		lloms
	a Pairs of one digit numbers	1
A Recognition of Small and Large Numbers	b Pairs of two digit numbers	4
	c Pairs of two digit and one digit numbers	1
	a Addition of two one digit numbers	2
B. Addition	b Addition of one digit numbers with zero	1
	c Addition of zero with one digit number	1
C. Culhtradian	a Involving two one digit numbers	3
C Subtraction	b Involving same one digt numbers	1
	Total	14

Table 1.9

Profile of Dropout Literacy and Numericy Test.

Area	Content	Items
	Factual	4
Literacy	Inferences	4
·	Total	8
	ADDITION 1 Involving single digit numbers	1
	2 Involving single and double digits numbers	2
Numeracy	3 Involving two double digits numbers	1
	SUBTRACTION 1 Involving one digit numbers	1
	2 Involving two digit numbers	[
	MULTIPLICATION 1 Involving two single digit numbers	1
	2 Involving double digit and single digit numbers	1
	Total	8

may not be as high as their counterparts in the schools.

B. Schedules

In order to collect information relating to personal, school and home factors influencing learning of students in class 2 and 5 and of dropouts, the following four structured schedules developed by NCERT were used after minor modification and translating into Oriya. The information were collected from the sampled schools, teachers, students of classess 2 and 5, and dropouts.

1. Students Present Schedule (SPS)

This schedule contained 43 items relating to general details about the respondents (students of class 5). These items were organised under 16 sub-sections covering as many back-ground variables relating to socio-economic status of the family, pre-schooling, school related activities, health and nutrition of the students and school attendance. The items were intended to gather factual information about background variables and pupils perceptions of functioning of school.

2. Students Dropout Schedule (SDS)

This was a modified version of the students present schedule used for interviewing the dropouts and consisted of 19 items relating to background variables including items seeking information regarding reasons for leaving school and the type of work the dropout was engaged in.

3. Teachers Schedule (TS)

This schedule was used to interview the teachers and the headmasters of sampled schools. This contained 36 items arranged in nine sections relating to teachers qualification, training and teaching experience, family background, teaching activity, supervision, etc. In addition 13 more items arranged in four sections meant to interview the headmasters on their responsibilities, teaching systems, students' expenditure on education and community participation in education.

4. School Record Schedule (SRS)

This schedule was consisted of 11 sub-sections with total 29 items intended to collect factual data concerning pupil enrolment, attendance, teachers' qualifications, teaching time, teaching equipments and facilities available in school, financial and material help received by the school and the total working days.

Besides the above mentioned tools, the investigators maintained a set of field notes for each school. Apail from recording the procedures for selecting pupils, dropouts and teachers and listing details of the sampling, the field notes contained the investigators' observations and qualitative information that might aid in explaning and interpreting the results.

Procedure

The project was conducted in two major stages: conduct of the survey, and processing of the data. Conduct of the survey involved the choice of the project team, training of the field workers and the process of data collection.

Project Team

For each district a project team comprising one Principal Investigator, three Field Supervisors and 12/14 Field Investigators (FI). Five senior members of Education faculty with more than 15 years of teaching and research experience and serving in different projects at SCERT, Orissa, Bhubaneswar were appointed '' principal investigators. The field supervisors were selected from the teaching members of the DIETs or CTEs of the respective districts or neighbouring districts. Unemployed graduates with post-graduate diploma or degree in Education were selected as field investigators. Care was taken to select some women members in each team as field investigators to facilitate the collection of data wherever the gender conservatism was found to be more pronounced.

Training Programme

Before the team went in for the actual data collection, they were exposed to intensive orientation in stages. In the first stage, all the principal investigators and the field supervisors under-went a ten-day training organised at the Directorate of Teacher Education and SCERT, Orissa, Bhubaneswar from 20th January, 1996 to 79th January 1996. The experts from the NCERT conducted programme as resource personnel. The process of sampling blocks/urban areas, schools, students, teachers and dropouts the techniques of collection of data through schedules and procedure of administration of tests, and programming the data collection at different places were discussed in detail with aid of two brochures on training and field work prepared at NCERT level. The participants were given three days of practical experience of field work operation for the collection of data.

The principal investigator and the field supervisors of a district conducted the training programme for the field investigators at their respective district headquarters. These training programmes were of 10 days duration from 14th February to 23rd February, 1996 and the training curriculum was exactly the same as the first one.

Data Collection

In the course of data collection, a systematic division of work by the team was planned and a definite time schedule was also followed. In the field deployment plan , in each team the 12/14 field investigators (FI) were divided into six or seven groups with two members in each group. Two groups of field investigators were

under the supervision of one field supervisor (FS). The Principal Investigator (PI) was in overall charge of the field work by the team.

Time Schedule

The data were collected simultaneously from the five districts from 24th February to 18th March,1996. In each district, the respective teams moved from one location to another assigning one sample school to one group of investigators randomly. Data from a particular school were collected within three days as per a definite time table (Table 1.10)

Table 1.10

Time schedule of data collection in a school

Day	Field Investigator	Tasks		
lst Day	1	Complete School Record Schedule selection of teachers (if necessary), complete Teachers' Schedule, indentify dropouts.		
	2	Select class 5 students and administer Achievement Tests on them. Commence filling up of Students Present Schedule, and identify dropouts.		
2nd Day	2	Complete the spill over of the 1st day's tasks. Select class 2 students and conduct the oral tests. Assist team Field Investigator 2 in student interview. Complete student interviews.		
3rd Day	Both 1 & 2	Conduct literacy and numeracy tests and interviews in respect of dropouts.		

Slight variations were made in this time schedule depending on the problems faced but three days timing was adhered to as strictly as possible.

In the sampling of students, and in the administration of tests, the teachers' involvement was strictly avoided to minimize the teachers' bias. Examples of items and the process of reporting were clearly explained to the students because of their unfamiliarity with the multiple-choice item formats and they were allowed enough time for completing the test. Care was taken to see that the students did not take recourse to any unfair means while responding the items.

After each day, the project team assembled in the camp at evening hours and scrutinized the data collected on the day and planned for the next day. The mistakes or omissions detected were corrected on the next day. The principal investigator and the field supervisors were always available to help and monitor the investigators work so as to make the data as fool proof as possible.

Data Processing

The data were then subjected to detailed scrutiny at each district level by the principal investigators and field supervisors particularly, regarding the correctness of the codes used at appropriate places in different scheduleds and tests.

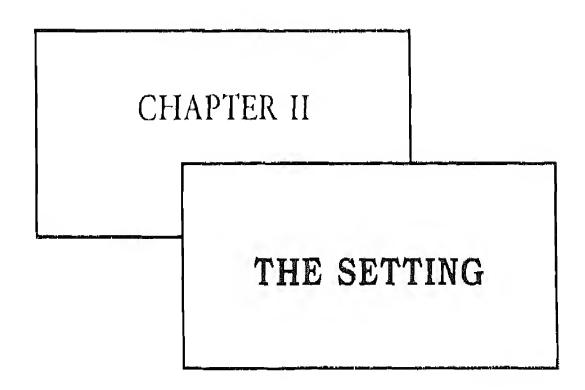
Finally, at the state level, another round of scrutiny was done to ensure the uninformity and correctness of the codes used.

The data were then transferred to magnetic media using SPSS Data Entry Programme. The data thus entered were subjected to data verification before going in for the final analysis.

Statistical Analysis

Since this work is essentially descriptive in nature, two statistical methods of analysis were employed. Frequency and percentage distributions with respect to each

a broad picture of the variables were presented from which a broad picture of the variables under study could be discerinable. Wherever necessary, for intragroup comparison critical ratio test in the form of t-test were conducted with help of group means and standard deviations. Graphical presentations of the data for easy and comprehensible visual comparison were also presented wherever it was felt necessary.



- ◆ DEVELOPMENT OF PRIMARY EDUCATION IN ORISSA
- ♦ THE PROJECT DISTRICT\$

CHAPTER II

THE SETTING

The District Primary Education Programme (DPEP) Is being implemented in five relatively educationally unadvadistricts of Orissa, namely, Balangir, Dhenkanal, Gajapati, Kalahandi and Rayagada. The logic and logistics of DPEP are essentially based on the premises of disaggregated target setting and rock-bottom microplanning. The emergence of glaring disparities in the process of overall development of primary education system has led un to focus our efforts on the backward regions and disadvantaged groups with a mechanism of protective discrimination. One of the implicit neverthless visible, objectives of DPE to progressively reduce the extent is ο£ disquieting disparities in access, retention and achievement among the learners of backward districts relative to the education nally progressive districts. Logically, therefore, the DPEP interventions in the five targeted districts have to be planned in cognisance of the State norms and oſ educational development, However, the distinctive features and specific circumstances of the districts will remain as quiding considerations,

With this planning framework of DPEP in view, an attempt has been made in this chapter to present a precise situational analysis of primary education, its strengths and weaknessess, in the state and the profile of the project districts. The presentation of an overall scenario of the state and status of primary education in Origan is considered imperative on two counts; first, the state averages of various parameters of educational development are the sought for goals of the DPEP districts; and second, the development of education in the districts are to be in conformity with national and state concerns and priorities.

2.1. Development of Primary Education in Orissa

The quantitative expansion of primary education in Orissa during the last four and half a decade has been significant. Judged by all indicators o f quantitative expansion, the development of primary education in the state has consistently experienced an upward trend. Apart the game of numbers, a few initiatives and developments have contributed to the qualitative transformation the system. In fact, state's endeavour to realise The constitutional commitment for universalizing elementary has, less yielded education ın no measure, dividends. This is evident from the following presentation of facts and figures.

2.1.1. Provision of Access

Providing opportunities of access is an important aspect of the supply side of primary education. Expansion of supply side of education includes growth in the number of primary schools, increased school places to accommodate more and more school-age children, rise in the number of educationally and professionally qualified teachers, preferably women teachers, etc. The number of primary schools in the state increased from a bare 9,801 in 1950-51 to 42,104 in 1995-96 to meet the growing demand for primary education. The ratio of primary to upper primary schools in the state is 1 : 4 (1995-96) as against the desired norm of 1:2. The ratio was 1:19 in 1950-51. The total number of children enrolled in classes 1 to 5 in Orissa was 3.15 lakhs in 1950-51. The size of enrolment substantially swelled to 36.8 lakhs in 1991-92 and 37.9 lakhs in 1993-94. Taking enrolment of children in the non-formal sector into consideration, the total number of children of enrolled the relevant age-group who have been 41.87 lakhs (Unicef, Orissa, 1996). As has been observed earlier, the state average enrolment figures tend to mask wide variations with regard to enrolment of girls, children communities, and enrolment in educationally backward districts.

approximately a child population of children have been enrolled 41.87 lakh behind 13.13 lakh children outside the ambit of the primary almost one-fourth of education system. In other words, school-age children have not been enrolled and/or prematurely dropped before completing the five-year primary proportion of out-of - school chaldren schooling. The the age group 11-14 is alarmingly large i.e., it percent. in absolute Even though total enrolment increased since 1950, the disparity ironically between boys and girls, has actually increased instead of reducing. In terms of net enrolment ratio (NER) i.e., 81.9 percent (6-11) years and 44.7 percent (11-14) years, the state has to traverse a long way to reach the goal of UEF COMICA, 1992). With increasing reliance on the non-lormal channel to provide access to primary education to a substantial segment of the child population who are beyond the ambit of the formal system on account of plurality of reasons, non-formal stream in the state has been expansion of impressive. The number of NFE centres in 1996 is registered 1548 in the government sector and 8,700government sector. The relative growth in enrolment of boys girls of the age-group 6-11 is evident from the following table.

Table 2.1

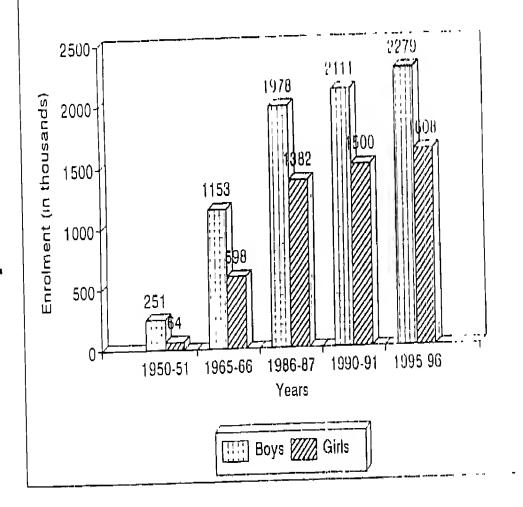
Growth of Enrolment in Primary Schools by Gender

(Enrolment in 'ooos)

	1950-51	1965-66	1986-87	1990-91	1995-96
вола	251	1153	1978	2111	2279
Girls	6 4	598	1382	1500	1608
					4000

Source: State Council of Educational Research and Training, Orissa, 1995

Fig. 2.1: Gender Disparity in Enrolment in Primary Schools of Orissa



The teachers constitute, next only to students, largest systems input. The number of primary school teachers have experienced almost a seven-fold fleshing-out during the period 1950-51 to 1995-96. The teacher pupil ratio at present stands at 1: 35 as against the all India average of 1: 42. However, this ratio is not evenly dispersed and widely varies between the range 1:18 to 1:70 (Government of Orissa, 1995). One of the welcome indicators been that the percentage of women teachers has on the rise ascending from a negligible percentage of less than two to almost 25 percent. This position is likely to improve further in view of the state government policy more women teachers into the primary decision to induct education system.

2.1.2. Retention and Dropout

The focus of planning for development of education has now shifted from enrolment per se to retention completion. Enrolment in the absence of survival figures, does not indicate the internal efficiency of the primary education system. Therefore, retention and completion rates are more revealing of the school effectiveness. Retention of children enrolled is a function of demand for and supply of education. The most recent available statiindicate that 54 percent of children are found to have survived ravaging forces of 'push' and variables. In other words, out of 100 children enrolled in class 1 as many as 46 children dropout before completing class 5 (Government of Orissa, 1995). The position is still worse at the upper primary level i.e.only 35 children out of 100 enrolled reach class 8. The incidence of dropout is further accentuated at a dlaaggregative level: 51 percent in case of girls, 57 percent in case of SC and 72 percent in case of ST children.

The disparities between target θ^d primary school-ago child population, age-specific enrolment and completion of five-year cycle of primary education leave ample acope

for raising the internal efficiency and external productlyvity of primary education system in the state (Fig. 2...)

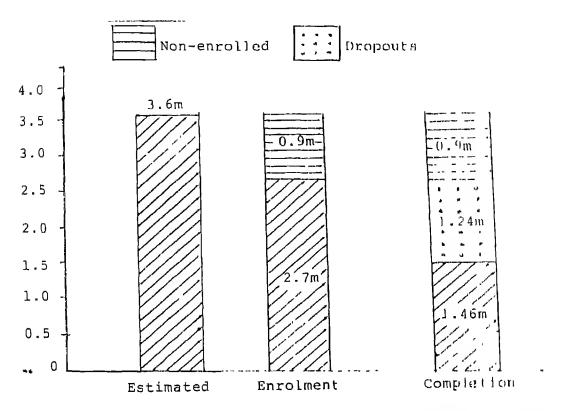


Fig 2.2 Enrolment and Completion of Primary Education of Schoolage(6-11 Years) Children in Orissa

2.1.3. Literacy Scenario

Level of literacy is closely related to and have, direct and indirect implications for quantity, quality and equity issues in primary eduction. Growth of literacy in the state has been presented in Table 2.2.

Table 2.2

Growth of Literacy Rates in Orissa (1951-91)

Year	Male	Female	Total
1951	27.3	4.5	15.80
1961	34.68	8.65	21.66
1971	38.29	13.92	26.18
1981	46.90	21.11	34.12
1991	62.37	34.40	48.55

Source : Census of India

It. is revealed from the table above that of literacy has consistently improved. However, one of the disturbing trends is that female literacy rates have always lagged behind the male literacy rates. Again rural-urban, SC/ST-non SC/ST and inter-district variations in literacy levels are a challenge of immense magnitude to be reckoned with. Once the level of literacy improves, it process of socio-economic sets in motion a rapid development bringing with it improved and better quality of life to people. The Total Literacy Campaign (TLC) has substantially improved the literacy scenario in the state.

2.1.4. Quality of Primary Education

Quality of primary education in Orissa could considered in the light of parameters of quality as discussed in Chapter I. One of the gross constraints discerning the quality indicators of primary education in the state is the non-availability of relevant data at the level of aggregation what to speaks of at the level of disaggregation. However, in terms of quality of achievement, it is found that levels of achievement learners in literacy and numeracy in 30 MLL Project Schools of Dhenkanal and Angul districts are very low (SCERT, 1995). Nagpal (1995)'s study of baseline assessment of achievement levels of primary school children of Gajapati, Kalahandi, Phulbani and Rayagada districts confirm thls Even in the absence of a data base, it could be concluded that in terms of number of single teacher schools, schools without buildings, availability of instructional aids, proportion of non-personnel costs, etc., the primary education situation in Orissa is no better than its counterparts in other educationally backward states of the country. However, an EFA document points out some of the deficiencies of the elementary education system of the state. These are as in 1990-91:

As many as 5,865 incomplete primary schools having classes from 1 to 3 to be upgraded upto class 5.

- There are 2,652 single teacher primary schools to be provided with additional teachers.
- Single room primary schools numbering 2,031 need to be provided with additional rooms.
- There are 8,117 building-less primary schools.
- UGME schools numbering 3,139 have no school building.

(Department of Education, 1992)

The government of Orissa is seriously seized with the compelling concern for quality of primary education, particularly since the adoption of NPE and POA (1986 and 1992). A few major initiatives that have been launched with support from Government of India (GOI), Unicef, Unesco, etc. include:

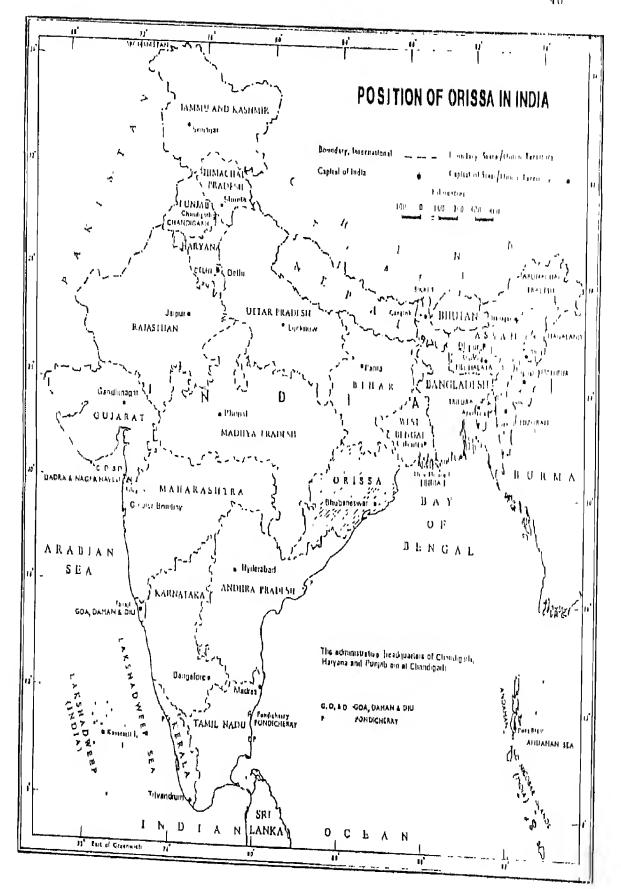
- Operation Blackboard (OB), a GOI sponsored scheme, is intended to improve the quality of infrastructural facilities Ln primary schools ·covered 34,118 primary schools in 314 community Blocks. By 1996, 101 urban areas of the have been covered under OB. The OB scheme, that started in 1987-88, has three components improve the logistics of schools, namely; (1) to provide two-room building facility to primary school; (II) provide alleast two leachers to (III) to in every primary school; and provide essential teaching-learning materials, including blackboard, maps, charts, toys etc. to every primary school.
- Massive orientation programmes for inservice primary school teachers in the form of PMOST, SOPT, MLL, and Anandmaya Shiksha is being organised across the state through DIETs, CTEs, and IASEs in order to enrich and update teacher competence. For this, support from GOI, Unicef and UNFPA has

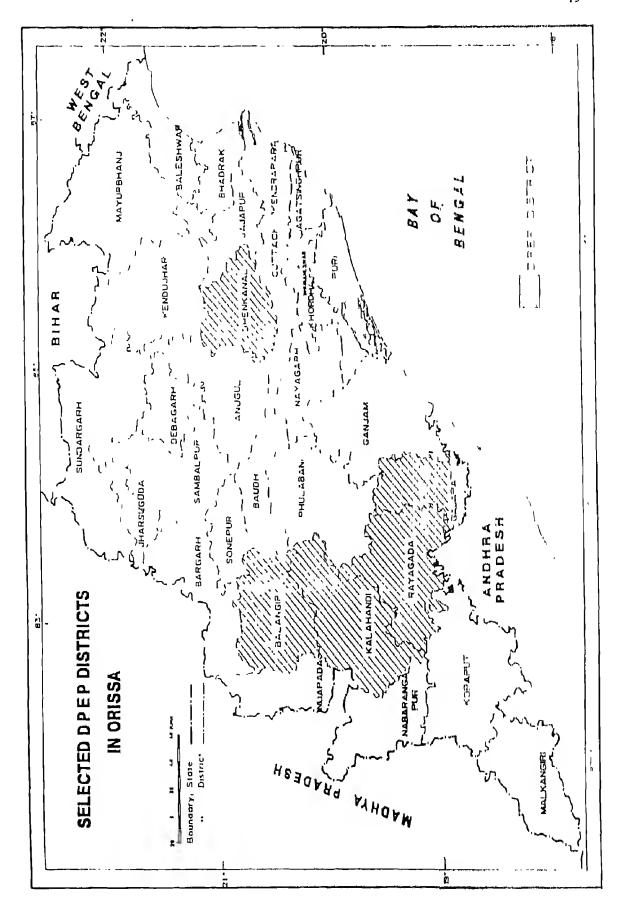
- been indeed of very high magnitude. To a large extent the inservice component hitherto the weakest link, has substantially been strengthened and reinforced.
- Establishment of 13 DIETs, six CTEs and three TAGES as a set of vibrant teachers training and research institutions has gone a long way in improving the teacher effectiveness and consequently, the quality of children's learning.
- Introduction of MLL in 30 project schools Dhenkanal and Angul of the state in 1994 95 on an R and D basis has created a congenial element and has yielded a wealth of insight and experience to upscale the MLL movement on statewide scale. The Government of Orissa taken major policy decision to introduce MLL in class I across the state from the academic session 1996-97 and subsequently to the programme in a phased manner. The competencytextbooks will replace the conventional based textbooks.
- Training in "Anandmaya Siksha"(AS) with bulltcomponent of MLL for teachers ofschools in eight UPE districts launched by Unice!, Orissa has revolutionised the teaching-learning methodologies and strategies. At the centrestage of this process of quality upgradation of schools are the teachers who are being empowered pedagogic techniques for making the teachinglearning process and classroom transactions joyful, meaningful and achievable for all children. The AS conceived and conceptualised þγ Orissa has tremendous possibilities and potentlalities to accelerate the pace of achieving UPR goals.

- The total literacy campaigns have been launched in 18 districts of the state. TLC has undoubtedly generated a number of externalities, apart from creating an ambience with other programmen such as EFA has significantly contributed to UPE in the state.
- The formation of Village Education Committee (VECs) at the grassroot level has been initiated with the intention of ensuring a genuine involvement of villagers in owning schools and enforcing accountability. The 73rd and 74th Amendment to the Constitution indeed concretized the concept of community participation.

With these developments in the field of primary education already initiated in the state, the DPEP interventions will accelerate the scale and pace of UPE. The DPEP seeks to operationalise para 7.4 of the POA (1992) which reads as follows:

"Further efforts would be made to develop district specific projects with specific activities, clearly defined responsibilities, definite time-schedule and specific targets. Each district project will prepared within the major strategy framework will be tailored to the specific needs and possibilities in the district. Apart from effective UEE, the goals of each project will include the reduction of existing disparities in educational access, the provision of alternative systems of comparable standards to the disadvantaged groups, a substantial improvement in the quality of schooling facilities, obtaining a genuine community involvement running of schools, and building uр local capacity to ensure effective decentralisation of educational planning. That is to say, the overall goal of the project would be reconstruction of primary education as a whole in selected districts





instead of a piecemeal implementation of schemes. An integrated approach is more likely to achieve synergies among different programme components."

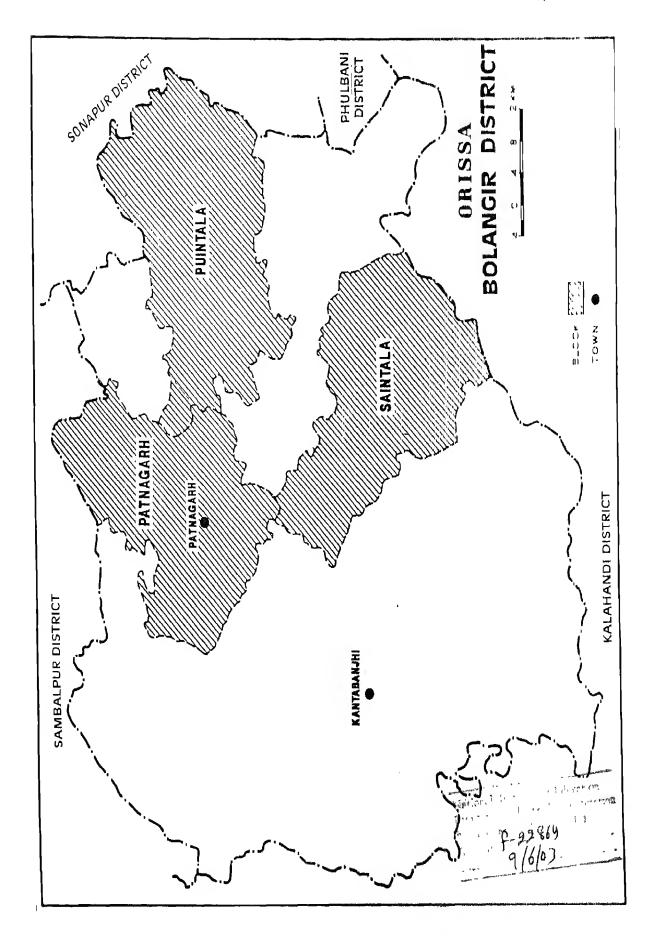
(Department of Education, 1995, p. 3).

2.2. The Project Districts

The five districts of Orissa State selected for this Balangir, Dhenkanal, Gajapati, Kalahandi and In this section the distinctive features Like geographical, socio-economic, administrative, and developconditions of the project districts have presented to provide the context for better comprehension of the present scenario of primary education in These factors are supposed to have or indirect bearing upon the primary schooling of children of the inhabitants of the region under

2.2.1. Balangir

Balangir is a western district of Orissa situated between 82°27'E longitudes and 20°11' to 83°38'F 21°15' N latitudes with an area of 6551.5 sa km is approximately 4.2 percent of the total area of the state. The land forms are characterized by hills and river valleys. Gandhamardan, Chheliapat and Mahada ranges are the prominent hills and tributaries of Mahanadi like Tel, Suktel, Auga and Lanth are the major rivers of the district. About 28 percent of the total is area covered by forest, Tho most important forest products are sal seeds and kendu leaves which bring sizable income for the state. Approxima. tely 68.6 percent of the total area is used for cultivation which is the main occupation of its inhabitants. The general climate is mostly dry except during rainy season more extreme than that of the coastal belt. Since irrigation facilities are quite inadequate cultivation depends entirely on monsoon. Because of the hilly terrain, the road communication developed, Vijayanagaram-Raipur is not well titilagarh-Rourkela sections of South Eastern passes through this district. The most of the localities



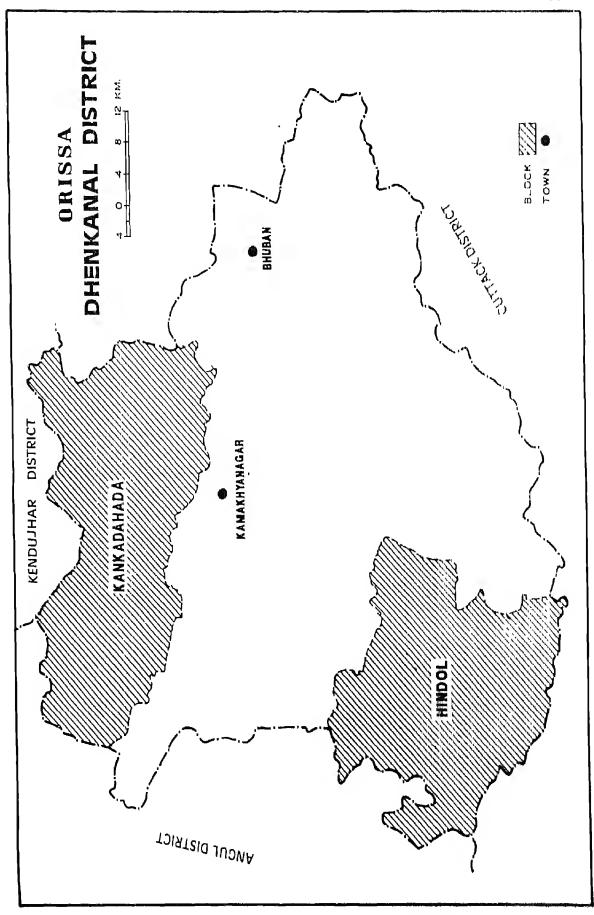
are provided with safe drinking water facilities, and electrification.

The district has three sub-divisions, five revenue tahasils, 14 police stations, 14 blocks, one municipality and three notified area councils and 24l gram panchayats representing 1882 villages. Balangir, the district head-quarters is at a distance of 327 km. towards the west of Bhubaneswar, the state capital. Titilagarh, Kantabanji, Saintala, Patnagarh and Luisinga are some of the important places in the district.

Out of the total population of 12.27 lakhs, 89.45 percent i.e. 10.98 lakhs persons live in rural areas. Males (6,19,493) outnumbers females (6,07,852) and the sex ratio is 981 females in 1000 males. The socially disadvantaged section constitute more than half of the total population with schedule caste 15.43 percent and scheduled tribes 37.55 percent (Census Report, 1991). There are nine degree colleges, one college of teacher education, one DIET, three secondary training schools, 415 upper primary and 1702 primary schools in the district. According to the 1991 Census, the literacy rate is 32.32 percent while the male literacy is 46.42 percent and that for the lemales is only 17.71 percent.

2.2.2. Dhenkanal

Dhenkanal is situated between 20°30' N to 21"19' N latitudes and 85°8' E to 86° E longitudes covering an area of 4527 sq km which is almost three percent of the total area of the state. Nearly 40 percent of the total area is covered by hills and forests. Brahmani, one of the major rivers of the state, and its minor tributaries constitute the river system of the district. Approximately 50 percent the total area is cultivable and majority of population (about 85 percent) depend on agriculture. general climate is warm and humid, Although part of the agriculture depends on rain, several minor irrigation projects help multi-crop cultivation in neveral



pockets of district. Communication is moderately developed with the National Highway No.42 and the Cuttack - Talcher section of the South-Eastern Railway running through the district. Most of the localities and places of importance are connected with pucca or metal roads.

population According to 1991 Census the total of the district is 9,47,870 which is around three percent of the total population of the State-The rural population is 8.70 lakhs i.e. 91.76 percent of the total population of the district. The SC and ST constitute 16.02 percent and 12.68 percent of the total population respectively. The sex ratio is 961 females per 1000 males. The literacy rate is 54.9 percent with 68.80 percent of males literates. 40.33 percent females have been recorded as The literacy rate of SC and ST people is quite low.

For administrative convenience, Dhenkanal district is divided into three sub-divisions, four tahasils and eight blocks. There are one municipality, two notified area councils and 172 gram-panchayats covering 1234 villages.

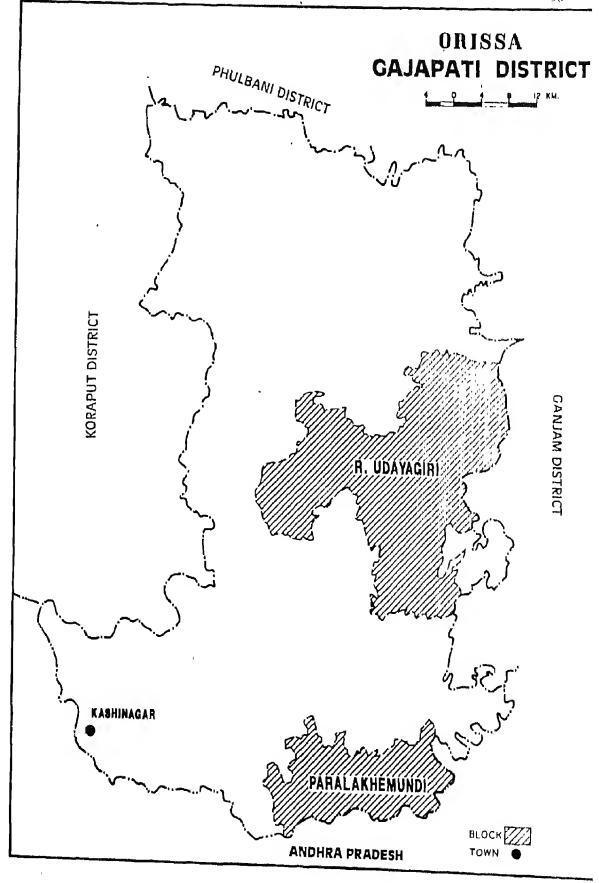
There are eight degree colleges, 21 +2 colleges and nine vocational schools, one DIET, 209 secondary school 239 upper primary schools, 911 primary schools and 32 sevashram schools. Besides these institutions there is one polytechnic and several institutions run by voluntary agencies for imparting education from early childhood to higher secondary level.

Dhenkanal has a rich cultural heritage in that a powerful Bhakti movement of Mahima sect which originated by the downtrodden sections of the society in the mid nine-teenth century and revolted against idolatory and discriminatory practices of the conservative Hindus and believed in the essence of the God and equality of man. This movement had its origin in this district and continues to exert influence over poor and low middle class in the state and predominantly in this district. The seat of this sect is at Jornda about 20 km North West of Dhenkanal town.

2.2.3. Gajapati

This district lies between 1.8°45'N to 19°39' latitudes and 83°44' E to 84°25' E longitudes with an area of 3440.57 sq km which is about 2.2 percent of the area of the state. This was a part of Ganjam district (Parlable mundi sub-division) and was given district status in 'nd October, 1992. Parlakhemundi, its headquarter is ellusted at a distance of 349 km south of the state capital. Thus is one of the southern districts of the state lendering Andhra Pradesh to its South. Hence, it has a multilimital population with Criva and Telgu as two major languages used. More than 65 percent of its area is covered by Allla and forests Mahendragiri, Debayiri, Singara, are of the prominent hills of this district. Mahendra Tanaya and Vansadhara are the two main rivers alongwith a number of nalas or rivulets constituting the drainage system. The land forms are mostly hilly or high plateau with height from the sea level varying from 790 m to 1510 m. to its proximity to sea the general climate is except during winter when it is dry and cool. The communica. tion network is not adequately developed. A meter railway from Nuapada to Gunupur passes through this district Road communication is available only to district block headquarters. There is only 125 km of state way running through this region. There are 18 tolegraph offices and 146 post offices with a few number of call facilities available in urban areas in this district.

Due to the predominance of hilly lands, a forest cover land available for cultivation is around 25 percent of the total area of which only 28 percent is covered by minor irrigation projects, lift irrigation or tube well irrigation. Shift cultivation on the slopes of hills are also practised which has been the main cause of land erosion and forest depletion. Paddy is the main crop alongwith some varieties of oil seeds which are harvested during winter.



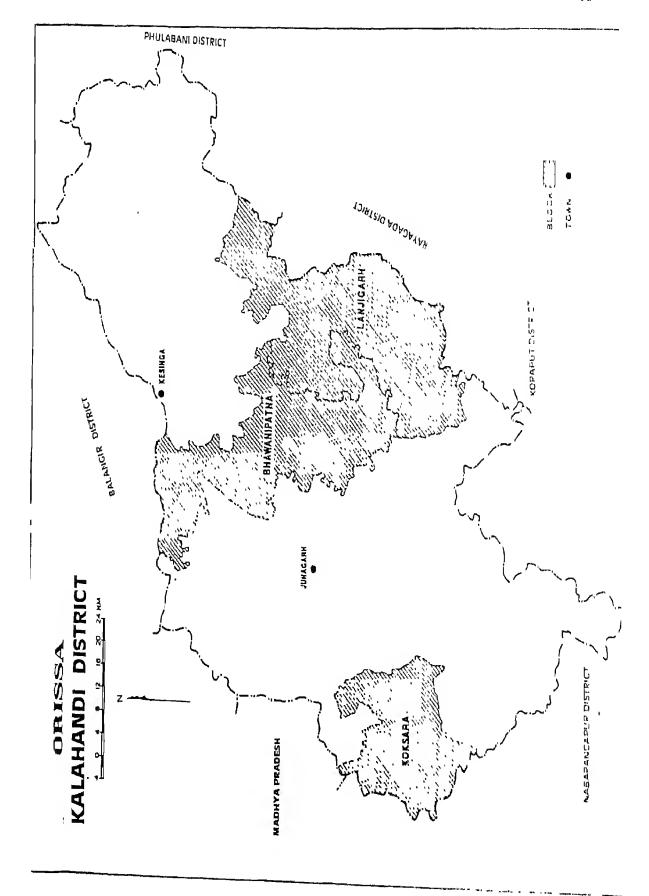
The district has seven blocks, one municipality (Parlakhemundi), one NAC (Kashinagar) and 106 quam panchayats covering 1576 villages.

As per 1991 Census the total population of Gajapati district is 4.55 lakhs i.e. only 1.44 percent of the total population of the state. Majority i.e. 89.71 percent live in rural areas. Around 48 percent of the population are scheduled tribes and 8.8 percent are scheduled The literacy rate in Gajapati district is 29,37 percent with 41.76 percent males and 17.44 percent females being literate. The SC males has an edge over their counterparts in other castes in literacy rate (i.e. 32 percent of SC male are literate) while SC females (12 percent) are much behind the district literacy rates. There are six colleges, 43 high schools, one secondary training school, two vocaschools. tional 82 upper primary schools, 803 primary and 49 ashram schools. Besides, there is one central school, 342 NFE centres, and 577 Anganwadi Centres.

2.2.4. Kalahandi

Kalahandi is located towards South-West of Ollaga between 82°32' E to 83°45' E longitudes and 19°10' N to 20°25' N latitudes with an area of 8373 sq km which is 5.3 percent of the total area of the state. The topography of the district can broadly be divided into two district regions i.e. hill tracts and plains. The hill tracts mainly comprise of the hill ranges, a portion the Hastern Ghats, running from north east to south west of the district. The river valleys of Tel and Junk constitute the plain region. Indravati, Hati, Utel & Ret are other rivers in the district

Kalahandi has an extreme climate which is mostly dry except in the monsoon which is quite irregular in this region and thus, this is one of the most drought prone districts of the country. Nearly 50 percent of the total area is covered by forest. Due to lack of minimum irrigation facility, the agriculture is entirly dependent on rain and the drought condition which is experienced in about every



alternate years, the agricultural yield is irregular and insufficient to cater to the needs of the population. Paddy is the main crop and several pulses and oil seeds also constitute the agricultural products. Most of the population depends on the forest products. Due to the fast depletion of forests and governmental efforts to preserve natural flora and fauna, the income of its inhabitants is quite meagre and are very often forced to bonded labour and migration. This condition of poverty is quite appaling and has got wide publicity in the national and international media.

Forest products like kendu leaf, bamboo, leak wood, fire wood, mahul are the chief sources of income. Among the mineral deposits of bauxite, graphite and manganese graphite is commercially exploited.

The communication facilities are quite underdeveloped. The district & block headquarters are connected by roads. A portion of the Vijayanagarm-Raipur section of South-eastern Railway runs through the district. Most of the villages are yet to be connected with pucca roads.

Under governmental and voluntary efforts developmental work for improving the economic conditions are now under way. Besides providing basic amenities like safe drinking water, electrification, education, health services, vocations based on indigenous raw materials are being encouraged under a long term plan (Planning & Coordination Department, 1995).

According to 1991 Census the total population of the district is 11.31 lakhs which is about 3.6 percent of the total population of the state with nearly equal numbers from both sexes. More than 93 percent of the total population live in villages. SC and ST population constitutes 46 percent of the district's population. The literacy rate is 26 percent with female literacy in meagre 15.28 percent.

The district has two sub-divisions, five tahasils, two NACs, 13 blocks, 12 police stations. 195 gram-panchayats and 2213 revenue villages.

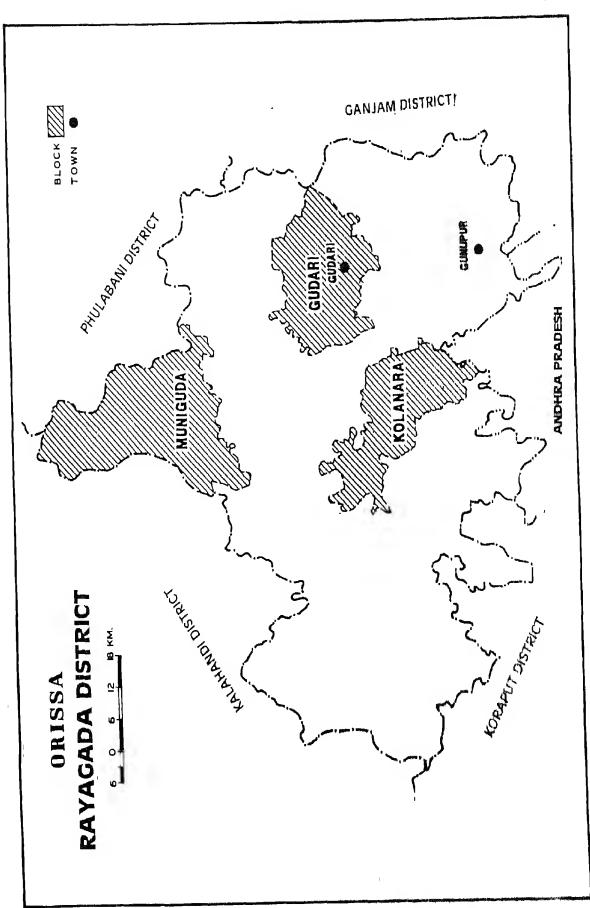
The educational needs of the district is served by 24 colleges, one teacher training college, one DLET, one polytechnic institute, one Navodaya Vidyalaya, 198 secondary schools, 24 upper primary schools, 1450 primary schools, 779 NFE centres and 1152 Anganwadi Centres.

2.2.5. Rayagada

Rayagada was given the district status in 2nd October subdivisions i.e. constituting two Rayagada of the erstwhile undivided Koraput This is a southern district of Orissa bordering Andhia Pradesh to its South and is located between 82°47' E to 84°10' E longitudes and 18°50' N to 19°58' N latitudes covering an area of 7585 sq km which is about 4.96 percent of the total area of the state. Rayagada, the district headquarters is situated 390 km south-west to the capital.

The physical feature of the district is dominated by hills belonging to the Eastern Ghats. The bills and dense forest cover more than 53 percent of the Lotal area. Kashipur Tahasil is a plateau of about 900 mt height above the sea level. Vansadhara and Nagabali, main rivers alongwith their innumerable nalas and rivulets criss-crossing the landscape constitute the main drainage system. Such a geographical feature is the main reason of poor communication facilities developed in this the state, a portion of the Vijayanagarm-Raipur section of the South-Eastern Railway was the only railway facility available in this district. Recently, Rayagada has connected with Koraput through railway. Road facilities are available to district and block headquarters.

Due to the rich mineral deposits of bauxite, manganese, graphite and plenty of reference products the district has some major industries like ferro-alloys, ferro-silicon, and paper have been established and two aluminium plants



with 100 percent export orientation are now being planned. Valuable forest products like costly timbers of sal and teak, kendu leaf, sal seeds and several others are the source of a large revenue to the state.

Only 24 percent of the total area is cultivable and irrigation facilities are available to only 20 percent of the cultivable area. Paddy is the main crop. Maize, ragi, arhar, mustard and alası are also cultivated.

Out of the district's total population of 7.13 lakhs, nealy 70 percent belong to ST and SC. The Kondha, Soura, Paraja, Dongria Kondh, Gonda are major tribes constituting major portion (56 percent) of the population. The predominantly tribal inhabitants present unique opportunities for the social scientists for probing into their life styles and cultural diversity. More than 85 percent of the total population belong to rural areas. One distinct feature of the population of this district is that females out number males. The sex ratio is favourable to women with 1011 women for every 1000 men.

The district has two subdivisions, four tahasils, ll blocks, one municipality(Rayagada), two NACs, 12 police stations, 140 gram panchayats with 2369 villages.

The literacy rate is quite low at 26.01 percent with female literacy is as low as 15.63 percent as compared to male literacy rate of 36.53 percent.

There are 11 colleges, two technical schools, two secondary training schools, 62 high schools, 131 upper primary and 1372 primary schools.

From the preceeding discussions, one can comprehend the major factors common to these districts that come in the way of expanding primary education facilities in these areas.

 The topography of these districts are dominated by hilly terrains and river systems which has been the hindrance for road communications. There are still a large number of pockets of habitations which cannot be negotiated except walking.

- The economy of these districts depends mainly on two sources: forest products and agriculture. Since forest coverage is increasingly being destroyed and with strict regulations to protect them, the income from forests is on the wane. This has a serious stake on the state of living standard of the people of these areas.
- Agriculture is mainly rainfed and since rain, though not low in this region, is not evenly distributed. The agricultural yield is low and inconsistent, thus inducing large scale poverty in the region.
- activities, since dependent agricultural do not provide engagements throughout the year. That is why unemployment and under employment are endemic in this region for Inq migration of capable persons l n nearch ΠĚ sustained employment leaving behind the incapacitated persons, thus, eroding human resources of these areas. This recurring phenomenon of migration of people, disruptly small children leading schooling of to enrolment and droping out.
- Large scale depletion of forests, the traditional practice of podu cultivation (burning forest covers for shift cultivation) have caused heavy soil erosion by which the fertility of the land is decreasing and agriculture is becoming less productive.
- Poverty induces social security net to become quite loose which has led to dissolution of families, deserted women and uncared for children.

- All these districts are inhabited predominantly by scheduled tribes (ST) who are by nature very simple, innocent, and as such vulnerable to exploitation by other so called advantaged groups. As a result of continuous exploitation the socio-economic lag is considerable enough to aim at rapid growth in any direction.
- Poverty, exploitation, and centuries of neglect has built up a psyche of fatalistic acceptance of sufferings and a sense of indifference among tribes towards any developmental activity, including the spread of education.
- Children in tribal and rural communities of this region are required to suppliment to the slender income of their parents and/or to act baby sitters. Therefore, such school-age children are deprived of basic education opportunities,

The contextuality of UEE varies widely across the states. Even within a state, inter-district variations are not uncommon. Educational planning for UEE, to be realistic and pragmatic has to take into cognisance the stark ground realities emerging from interse interactions with people at the grassroot and from an objective assessment of the state and status of primary education through a systematic study.

That has precisely been attempted in the foregoing discussions.

CHAPTER III

MAJOR FINDINGS

- ♦ SCHOOLS · INFRASTRUCTURE AND MANAGEMENT
- ◆ TEACHERS AND TEACHING LEARNING PROCESS
- ◆ DROPOUTS : CHARACTERSTICS AND ACHIEVEMENTS
- ◆ ACHIEVEMENT OF CLASS 2 STUDENTS
- ◆ CLASS 5 STUDENTS : CHARACTERISTICS AND LEARNING ACHIEVEMENT

CHAPTER IT1

MAJOR FINDINGS

This study was conducted to assess mainly the quality of primary education with the performance of learners at the terminal stage as its index. In explaining the performance of the learners in class 5, their background, the character ristics of facilitators of school learning like teachers, teaching process, the school plant were probed into. levels of dropouts and the achievement learners one year of schooling were also ascertained as the prodlctors of performance during the later years of polymory schooling. The major findings of this study, in terms the infrastructure and management of schools, chaaracteristics of teachers, head teachers and the teaching learning transactions, the achievement levels dropouts and class 2 students have been arranged before finally presenting the characteristics and the quality of achievement of class 5 students.

Section I

Schools: Infrastructure and Management

School management and school facilities have direct and indirect bearing on school quality. School "actors" and "actions" considerably influence the quality education and consequently the quantum and quality learner achievement. This section is, therefore, to a discussion on an overall profile of the schools. The discussion covers a number of aspects primary schools such as, management infrastructural inputs; instructional practices, additional requirements community contributions. In short, an attempt has been made this chapter to present a situational analymia of the state and status of school facilities and management.

Composition of Enrolment

1 n structural patterns of enrolment of gender, location and caste are discernible from the data presented in Tables 3.1.1, 3.1.2, and 3.1.3. In all five districts, the percentage of enrolment of boys is higher than girls. At the level of aggregation, the percentage of enrolment of boys outstripes the percentage of enrolment of girls . The average percentages of enrolment of the five districts are 58 percent for the former and for the later. This reveals incidence of under representation of girls in enrolment though they constitute almost half of. the total population, Ironically, the average percentages of girls enrolment in Gajapati, Kalahandi and Rayagada are relatively low (39.0%, 41.6% and respectively), even though these districts have a favourable sex ratio. Another disturbing pattern that emerges is ; the proportionate share of girls enrolment in all the districts progressively and steadily declines as one moves from Class I to Class V. The extent of decline is again very pronounced in Gajapati, Kalahandi and Thus, it could be concluded that the phenomenon of dropout and wastage in case of girls accentuates further making the access aspect of UPE inequitous.

The predominance of rural population in the total population in all the five DPEP districts is reflected in the rural-urban composition of enrolment (Table 3.1.2). The proportion of rural children enrolled in the sampled schools is significantly higher than the that of children. The urban children constitute a bare less than one-fifth of the total enrolment in schools. Among five DPEP districts, Dhenkanal has the highest percentage (17.5%) of urban children on roll followed by Rayaqada (14.9%), the lowest being in Kalahandi (10.5%).

The proportion of students of different social categories i.e., SC, ST, OBC and general, varies from district to district (Table 3.1.3). The share of SC and ST students

Table 3.1.1

Total Enrolment and Percentage of Children in Schools (Genderwise)

District	Class	Воув	Glris
В	1	53.83	46 17
a {	В	49.36	50.64
a n	Ш	57,40	42,60
g I	IV	56 82	43,18
r	V	61.30	38 70
D h	l	52 96	47 04
e	11	57 47	45 53
n b	111	53,42	46 68
a n	IV	54,03	45 97
a l	V	54 43	45.57
G	l	55,79	44 21
a J	11	59,51	40,49
a p	lit.	60 64	39.36
a l	IV	62 29	37.71
i	V	66,77	33.23
K	1	51.42	48.58
a	11	54.85	45.15
a h	111	57.40	42.60
a n	IV	62.72	37.28
d i	V	65.50	34.50
R	1	53.00	47.00
a y	II	62.53	37 47
a	III	56,49	43.51
g a	IV	60.65	39.35
d a	V	66,72	33,28

Table 3.1.2

Total Enrolment and Percentage of Children in Schools (Areawise)

District	Class	Rural	Urban
В	ı	84.51	15.49
a I	11	84.04	15 96
a n	111	75.80	24,20
9	IV	80.22	19,78
r	V	78.37	21.63
D	l	91.60	8 40
h e	П	6 5 8 4	34 16
n k	ш	86.52	13 48
a N	IV	85,36	14 64
a I	V	83 29	16.71
G	ı	89.64	10.36
a 	H	87.32	12.68
a p	111	B8.06	11.94
a l	IV	86 46	13 54
i	V	81.57	18.43
K a	ı	93.61	6.39
l I	П	91 30	8.70
l a In	III	91.54	8.46
a n	IV	86 24	13.76
ď	V	85.54	14.46
R	ı	85 27	14.73
a y	П	88.32	11,68
a g	lit	85.52	15.48
a d	IV	83.96	16.04
a	V	83,44	16,56

Table 3.1.3
Total Enrolment in Schools (Categorywise)

District	Class	sc	ST	OBC	Cithors	
		24.47	21.62	37 1	10 80	100.00
	11	24 73	14 51	31 43	24 3H	100 00
Balangır	1(1	24.28	18 81	24,44	32 411	100 00
	IV	27.62	16 89	22 68	32 81	100.00
Ī	Total	19,67	18,86	32.03	29 4:1	100 00
	l	19 21	16.91	3 ,05	00 ft4	100 00
	11	19 91	10.70	3 25	66 14	100 00
Dhenkanal	111	12.97	8,78	3 47	14 11	100 00
	IV	16,57	7.60	4 77	71 06	100 00
	Total	11 27	8.61	4 18	76 98	100 00
	ì	15 99	25.69	7 20	51 06	100 00
ı	II	12 85	23.41	6 83	56.94	100 00
Gajapati	III	13.49	22.97	8.27	54.82	100 00
	IV	12.29	18.33	7.92	61.46	100 00
i	Tolal	9.67	16,62	11 18	62 54	100 00
	l	28,53	37.09	25.75	8.63	100 00
	11	26 76	36.34	26.86	9 03	100 00
Kalahandi	Ш	25,81	35.13	30.32	9 73	100 00
	١٧	28.22	29.44	28.40	13,49	100 00
	Total	27.69	30.17	25.62	16.53	100 00
	1	30,39	26.74	17.17	25.70	100 00
•	11	35.37	22.21	19,68	22.74	100 00
Rayagada	III	27.20	21.76	21.03	30.02	100 00
	IV	25.12	20 40	23.63	30 85	100 00
	Total	19.94	19.79	23.01	37 27	100.00

taken together is the highest (57.9%) in Kalahandi district and lowest in Dhenkanal (19.9%). Children from OBC and other communities combinely represent a proportionately larger share of the total enrolment of schools with the singular exception of Kalahandi district. This could probably be explained partly by the relative share of SC and ST population in the total population, and partly by the higher "perceived value" of education by the parents of children from the OBC and "others" who have a build in proclivity to grab the benefits of development.

Class Size

Table 3.1.4 presents the position of average class size obtained during the academic session 1995-96.

Table 3.1.4
Average Class Size

Class	Balangir	Dhenkanal	Gajapati	Kalahandı	Rayagada
l	30 42	49 68	25.91	35,04	28,80
li .	22.55	32 75	17.57	21.61	25 67
111	27.64	27.97	18.65	16,88	25 83
١٧	18,42	25 17	13.71	13 66	21 72
٧	13 66	22.57	9.45	11.52	17,62

It is revealed from the table that Dhenkanal district has, on an average, more number of students per class across grades I to V. The average class size is found to belarger in classes one and two and thereafter it progressively declines. Almost in all districts the average class size is below the prescribed norm of teacher-pupil ratio of 1:40. From economic point of view, the average

class size in grades IV and V appears to be nonviable. This position becomes more unacceptable when considered in the light of inconclusive relationship between class-size and instructional effectiveness.

Working Days in Schools

The number of working days scheduled for the academic session is an indicator of the effectiveness of teaching learning process. This is so because the school apparatual and available resources are put to use during the working days. Normally, the state government fixes the holidays with minor variation in the district. Therefore, in all probability the number of scheduled working days remains almost the same, irrespective of the location of network across the state. The position with regard to the neheclated working days in the sampled primary schools is presented in Table 3.1.5.

Table 3.1.5
Precentage Distribution of Schools According to the Number of Working Days

Working Days	Balangır	Dhenkanal	Gajapati	Kalahandi	Rayayada
100 - 125	0.00	0 00	0.00	0.00	0.00
126 - 150	0 00	0.00	0.00	0.00	0.00
151 - 175	0.00	0 00	0.00	0.00	0.00
176 - 200	0.00	0.00	0.00	0.00	0.00
201 - 225	77.14	31.43	31,43	19.05	43.24
226 - 250	22.86	68.57	62.86	78.57	51.35
Above 250	0.00	0.00	5.71	2.38	5.41

It is evident that most of the schools (from 94.6 to 100%) function between 201 to 250 days in a year. None

of the sampled schools reports working days less than 200 days, the scheduled working days being officially fixed at 210 by the state government. Interestingly, it is observed that on an average about five percent schools reported working on more than 250 days in an academic session which is inexplicable.

Infrastructural Facilities

School Building and Classrooms

Almost all sampled primary schools operate invariably operate in buildings owned by them. With regard to available lity of building, there is practically no variation among schools (Table 3.1.6).

Table 3.1.6
Percentage of Schools on the Basis of Building Ownership

Туре	Bolangır	Dhenkanal	Gajapati	Kalahandi	Flayagada
Own Building	95.56	100 00	91,43	97 62	94 59
Rented Building	0.00	0.00	0,00	0 00	0 00
Rent Free Building	4 44	0 00	8,57	2 38	5.41

This is because all the schools are government managed schools. With the only exception, schools in Dhenkanal, in other four districts, a small percentage of schools function in rent free buildings, the highest being in Gajapati (8.6%) followed by Rayagada (5.4%), Balangir (4.4%) and Kalahandi (2.4%). Rent free buildings are either provided by the government or by the community. This position reflects the participation and involvement of community, though on a very small scale, in providing and monitoring accommodation for schools. This favourable scenario does not, however, indicate the type of building

the schools operate in. The substantive state of provision of building facilities could be assessed only from the availability of rooms in schools.

Table 3.1.7 presents the position with regard to availability of classrooms in sampled schools.

In consideration of five-class primary schools the state, schools in Dhenkanal are better placed with to availability of rooms to hold classes. schools having percentage of five and more classrooms in this district come to 41.1. The position of Rayaqada (40.5%) in this regard is almost comparable to Dhenkanal. The situation is found to be deplorably unmanageable in Kalahandi : almost 60 percent of schools have only one to two rooms. Again more than four percent of schools in Balangir and two percent achools in Kalahandi have classrooms. Differences are evident schools possessing four or less than four rooms. Balangir (71%), Dhenkanal (69%), Gajapati(66%), Kalahandl and Rayagada (59%). Nearly 30 percent schools In the sampled districts have two classrooms. This might be due to the provision provided for under OR.

The unmet need of schools for additional rooms is clearly perceptible from Table 3.1.9. All the sampled schools of five districts desired to have more classicoms to meet the increasing demand for more space for students and teachers.

Distance

Table 3.1.8 presents the location of schools other educational to institutions. of Primary schools in terms of proximity to other educational institutions has a number of advantages. As could be seen from table, in all the districts most of primary schools are located within a distance of 1 to ' kma institutions (Anganwadia, from the nearest offering pre-school and pre-school) facilities. than 80 percent of primary schools in all the DPMP districts have, without exception, primary schools in the neighbour-

Table 3.1.7

Percentage of Schools According to Number of Classrooms

No. of Class Rooms	Balangir	Dhenkanaí	Gajapatı	Kalahandi	Rayagada
Zero	4.44	00 0	0.00	2.38	0.00
One	24.44	2.86	20 00	21.43	8 11
Two	13 33	31.43	37.14	38.10	29 73
Three	28 89	22.86	5.71	17 67	18 92
Four	00.00	11.43	2.86	9 52	2 70
Five	15.56	28.57	25 71	4.76	24 32
More than Five	13 33	12.86	8.57	7 14	16 22

Table 3.1,8

Proximity to Other Schools

Name of the Place	Distance from the school (in Kms)	Balangır	Dhenkanal	Gajapati	Kalahandi	Науадыча
Na	1-5	55 56	22.86	77 14	42 86	61 39
l Nearest Anganwadi/ Balwadi/Pre	6 and above	0 00	0 00	0 00	2 38	0.00
School	Negligible	44 44	77.14	22 86	54 76	413 (1)5
	1-2	55 56	74 29	80 00	69.05	10.1.78
II Nearest Primary School	3 and above	24 44	22.86	14 29	28.57	. 70
	Negligible	20 00	2.86	5 71	2 38	1351
	Negligible	17.78	37.14	5 71	14.29	811
10. M	1-2	33 33.	31.43	54 29	45 24	67 57
III Nearest U.P School	3-4	33.33	17 14	25,71	26 19	;1 62
	5 and above	15.56	14.29	14 29	14 29	2 70
-	Negligible	17 78	17,14	2,86	2 38	8 11
IV Nearest High School/	1-5	68 89	65.71	82.86	57 14	80 78
Hr. Sec School	6 and above	13.33	17.14	14.29	30 48	811
	1-10	31 11	25,71	42.86	45 24	62 16
V. Block Headquarter	11-20	55.56	51.43	31.43	28 57	24 32
	21 and above	13.33	22,86	26.71	26 19	13.61
	Negligible	91,56	100 00	88.67	73 81	HD 18
VI. Nearest Traditional	1-5	4.44	0.00	5,71	4 70	U 11
School (Madrasa etc.)	6-10	0.00	0.00	0.00	0 P5	¥ /0
(Madiasa etc.)	10 and above	0.00	0.00	5,71	11 90	0.00

Table 3.1.9
Percentage of Schools Requiring Additional Classrooms

-				T	$\overline{}$		 -	_
Rayagada	2.70	10 81	18 92	57.35	8 11	5.41	2 70	
Kafahandi	4 76	7 14	11.90	35.71	23 81	16.67	00 0	-
Gajapatı	11.43	17.14	20 00	28.57	14.29	8.57	00.00	
Ohenkanai	2 86	25 71	31 43	34.29	2.86	2.86	93 0	
Balangir	00 0	6 67	33 33	28 89	15.56	13 33	2.22	
No. of Class Rooms	Zero	One	Two	Three	Four	Five	More than Frve	

hood within a distance of one-to-two kms. Almost two thirds of primary schools across the districts have upper primary schools within a radius of one-to-two kms, wherear around 15 percent of primary schools have upper primary schools at a distance of more than five kms, only exception being Rayagada. Another favourable feature is that most of the primary schools have high schools within a radius of five kms.

This locational situation of primary achoole in relation to other educational institutions will of immense help in planning cluster resource centre (CRC) in DPEP districts.

Essential Facilities

Provision for safe-driking water, toilet facilities, separate toilet facilities for girls and electric connection are considered essential facilities for primary schools.

Table 3.1.10
Percentage of Schools Having Essential Facilities

Facilities	Balangir	Dhenkanal	Gajapalı	Kalahandi	Rayagada
Safe Drinking	8	7	11	6	16
Water	17 78	20 00	31.43	14.29	43.24
Toilet	9	1	3	2	10
Facilities	20.00	2 89	8.57	4.76	43 24
Separate Toilet	4	0 0.00	1	1	14
Facilities for Girls	8 89		2.86	2.38	37.83
Electric Connection for the Schools	4	7	9	7	12
	8. 8 9	20,00	25.71	16 67	32 43

As could be observed from the Table 3.1.10, the availability of safe-drinking water in primary schols of the districts is in descending order in Rayagada (43.24%)

Gajapati (31.43%), Dhenkanal (20%) and Balangir (17.78%). Viewed from a comparative perspective, Rayagada district has a distinct advantage over four other districts terms of availability of these four essential facilities in schools: the percentage of schools having the facilities 43.24%.37.83% respectively are -43.248. and separate toilets Almost absence of provision for girls is very common in all districts except Rayagada. comparatively the situation with regard to electric connection to schools, is better than toilet facilities. short, the overall situation with regard to the availability of the four essential facilities seems to be unsatisfactory in Falangir, Dhenkanal, Gajapati and Kalahandi.

Furniture and Equipments

Chairs and tables for teachers are the most important and common furniture expected to be reasonably available in schools. They are available in a modest way in more than 50 percent of schools. In terms of relative position of districts, the situation in Kalahandi has enough scope for improvement. The facility for dustbins and notice boards are poor except Rayagada.

Teacher effectiveness is dependent, to a extent, on the availability instructional aids like maps, science kit, mathematics kil and mini globes, tools kit, in addition blackboard and chalk and duster. Field interactions with teachers reveal that the longest category of sampled schools belonged to category" and a handful of schools belonged to "average" category", Therefore, the intervention that is has three aspects : first, to provide the majority schools with essential instructional aids; second, make optimum utilization of teaching aids wherever they are available and third, providing teachers with training prepare low-cost and no-cost teaching aids use them optimally for effective teaching-learning process.

Table 3.1.11
Percentage of Schools with Furniture and Equipment

items	Balangir	Dhenkanal	Gajapati	Kalahandi	Rayagada
Chair for Teacher	3 17	22 34	26.05	26 83	19 82
Tables for Teacher	28.57	19.15	27.73	17.07	15.32
Water Pitcher & Ladly Glass	17.46	20.21	10.92	23.17	17 12
Dustbin	7 94	1 06	7.56	00 0	14 41
School Bell	25 40	32.98	24.37	23.17	18 02
Pin-Up Board / Notice Board	17.46	4 25	3 36	6.76	15 32

Provision for Co-curricular Activities

Games/musical instruments and play materials essential to organise cocurricular activities in schools in order to develop the noncognitive affective and paycholearners. Table 3.1.12 motor competencies in the overall situation with regard to existence or otherwise of facilities. In more than half of the schools except Kalahandi (19.05%) in Balangir, Dhenakanal, Gajapati and Rayagada toys are found to be available. Gajapati district is fortunate to have facilities of play materials in nearly 75 percent of the sample schools. A similar situation is obtained in schools of all live districts with regard to game equipments. Kalahandi district lags way behind the other districts on the stated parameters. this overall relatively favourable situation could attributed to the implementation of OB scheme in these districts.

Table 3.1.12

Availability of Facilities for Play and Games

Items	Bolangir	Dhenkanal	Gajapati	Kalahandi	Rayagada
Play Malerial	25	18	26	8	19
Toys	55 56	51.43	74.29	19.05	51 35
Game Equipments	21	18	21	5	19
	46.67	51 43	60.00	11.90	51,35
Musical	11	19	5	3	14
Instruments	24 44	54.29	14,29	07 14	37.84

The situation in respect of availability of playground in schools is indeed very poor and discouraging. Out of 194 sampled schools of all five districts, only 65 schools representing only one-third (33.5%) have playgrounds. In terms of the location of playground, it is evident from Table 3.1.13 that in case of 38 schools i.e., 58.5 percent schools playground facilities are available within the school premises.

Table 3.1.13
Percentage of Schools having Playground

Description	Balangır	Dhonkenal	Gajapati	Kalahandi	Dayngada
Playground facilities (away from school premises)	7 15 6	3 8,6	3 8.6	? 4.8	17
Playground within the school premises	9 20 9	8 22 9	7 20 0	4 9.5	10 27 0

Medical Facilities

Good health of children is an essential pre-requisite for allround development of children. High infant and child mortality rate is a concomitant outcome of poor child health care both at home and at school. Thus is evident from Table 3.1.14.

Table 3.1.14

Percentage of Schools with Health Facilities

Items	Bolangir	Dhenkanal	Gajapali	Kalahandi	Rayagada
Annual Medical	9	15	19	9	10
Checkup		42,86	54,29	21.43	27 03
Immunization	11	22	19	11	13
Facility	24.44	62.86	54.29	26,19	35 14
First Aid Kıt	5 11.11	2 5.71	3 8,67	0,00	12 32.43

with regard to annual medical check-up, Dhenkanal and Gajapati districts are relatively fortunate to have annual medical check-up in about 50 percent of their schools. An almost identical situation is found to exist in respect of facility for immunization. Avvailability of "first aid kit" is almost non-existent in four districts with singular exclusion of Rayagad.

Pupil-Teacher Ratio

Quite a few studies have found the inverse relation—ship between class-size and school effectiveness, defined in terms of learner achievement. Position with requid to apparent pupil teacher ratio (APR) and effective pupil-teacher ratio (EPR) has been presented in Table 3.1.15.

Table 3.1.15
Teacher Pupil Ratio

Rems	Balangir	Dhenkanal	Gajapati	Kalahandi	Hayagada
Apparent Pupil Teacher Ratio (APR)	11	33	15	4	10
Effective Pupil Teacher Ratio (EPR)	33	4 4	42	11	32

Apparent pupil-teacher ratio i.e. number of pupils to the number of sanctioned posts irrespective of filled in or not of the schools for Balangir, Dhenkanal, Gajapati, Kalahandi and Rayagada are 11, 33, 15, o4, and 10 respectively. The effective pupil teacher ratio is, on the other hand, calculated on the basis of actual number of teachers holding posts in schools and number of pupils on roll. Naturally, therefore, EPRs compared to APRs are higher in all the districts: Balangir(33), Dhenkanal(44),

Gajapati (42), Kalahandi (11) and Rayagada (32). The gap between APRs and EPRs indicate that a large number of posts lying vacant needs to be filled up. The discrepancy in respect of Dhenkanal is relatively low.

Vacant Position of Teachers

In addition to the requirement of basic infrastructure, provision of required number ceachers, i.e. atleast one teacher for each class, is essential for effective from Table functiong of schools. It is evident that no vacancy exists in more than three-fourth of schools Gajapati and Rayagada districts. Balangir, schools, cutting across the districts, having ofvacant post of teachers is found to be large. On an average, in more than 23 percent of scholls of the five districts one post of teacher is lying vacant. In Ralahandl, the percentage of schools having vacancies between three posts comes to 47.5. The situation compels teachern and educational managers to have the practice of teaching. If quality of learner achievement B improved and MLL strategy is to be adopted, the vacancies need to be immediately filled up.

Community Contribution

The extend of support to primary schools community has been presented in Table 3.1.17. It is revealed the table that more than three-fourths (77.128)of schools in all the districts receive no contribution from the community. This is due primarily to that all the primary schools in the sample are government schools drawing sustenance almost entirely from government sources. However, at a disaggregative level, the government support varies from 72.9 percent in Rayagada to 88.0 percent Kalahandi, The extent of community support highest (26.67%) in Balangir and lowest (11.9%) in Kalahandi district. Ιt appears from the table that schools suffering from a dependency syndrome and do not explore the possibilities of mobilising community support for their effective functioning.

 Table 3.1.16

 Percentage of Schools with Vacant Post of Teachers

					
Rayagada	28 (75 68)	5 (13.51)	2 (05.40)s	0 (0.00)	2 (05.40)
Kalahandı	20 (47.62)	14 (33.33)	3 (07.14)	3 (07 04)	2 (04 ⁷ 6)
Gajapati	27 (77.14)	6 (17 14)	1 (2 86)	1 (2.86)	(00 0)
Dhenkanal	23 (65 71)	10 (28 57)	2 (05.71)	00.0)	(00 0)
Balangir	34 (75.56)	9 (20 00)	2 (04.44)	(0.00)	(00 0)
Vaccant Post	0	-	2	ന	Above 3

Table 3.1.17

Percentage of Schools Receiving Community Contribution

Incentives (In Rupees)	Balangır	Dhenkanal	Gajapali	Kalahandi	Flayagada
No	33	27	26	37	27
Contribution	(94 29)	(77 14)	(74 29)	(88 10)	(72 97)
1-500	3	2	3	4	3
	(08 57)	(05 71)	(11.43)	(09 52)	(8 11)
501-1000	0	2	1	1	0
	(0 00)	(05.71)	(2.86)	(02.38)	(0 00)
1001-1500	0 (0 00)	0 (0 00)	2 (5 71)	(0.00)	2 (5 41)
1501-2000	1 (02 B 6)	0 (0 00)	1 (02 86)	(0 00)	1 (2 70)
Above 2000	8	4	1	0	4
	(22 86)	(11 43)	(2.86)	(0 00)	(10 81)

Section II

Teachers and Teaching Learning Process

the most crucial Teacher performance is in the field of education. Teacher characteristics, professional competence and commitment, orchestrization and monitoring of teaching learning process, management of schools, etc. have great bearings on the performance teachers, and consequently, on learner achievement. Teacher attributes and performance are particularly important at the primary level, the base of the educational pyramid. Therefore, this section is devoted to an indepth discussion of teacher charactristics and their managers of teaching-learning process. Their role as manipulthe dynamic and malleable variables focussed in the analysis of data collected from included in the sample,

Personal Characteristics

The sample consists of 523 teachers and 190 headmasters drawn from 194 schools. The composition of the
sample in terms of sex, place of residence (urban-rural),
and caste (SC,ST,OBC and others) has been depicted in
Table 3.2.1. The following features emerge from the analysis
of data furnished in the tables:

The cadre of teachers is dominated by a disproportionately large proportion of male Leachera all five districts : the range being to 66.3 percent in Gajapati at the lowest and 80.0 percent in Rayagada at the This position makes it clear that the representation of female teachers is not to an appreciation level, even though the government's avowed policy is to accord preference to appointment of teachers. Gajapati district has more number of female teachers. I n the number of female teachers is more than onethird of their counterparts.

Table 3.2.1
Percentage Distribution of Sample Teachers

District	Male	Female	Rural	Urban	sc	ST	овс	Olhors
Balangir	77 19	22 81	86 14	13.16	6 14	12.28	3 09	46 49
Dhenkanal	75.49	24 51	87.25	12 75	6 86	11 76	7 84	73 53
Gajapati	66,33	33 67	83 67	16 33	7.14	17 35	12 24	63 27
Kalahandı	81 00	19 00	92 00	8.00	13 33	7 78	34 44	44 44
Rayagada	79 62	20.18	81.65	18 35	5.50	11 01	12 84	70 64

Table 3.2.2
Percentage Distribution of Teachers (Gender and Age-wise)

	Age Group	Numl	oer of Tea	chers
District	(in years)	Male	Female	Total
	Below 25	5 68	0 00	4 3!!
	25 to 29	4.55	23.08	8 77
Balangır	30 to 34	14.77	34.62	19 30
	35 to 44	19 32	38 46	50 00
	45 and above	55.68	3 85	40 86
	Below 25	5.19	0.00	3 92
	25 to 29	9.09	16 00	10 78
Dhenkanal	30 to 34	9.09	24 00	12 75
	-3544	16.88	40 00	22 55
1	45 and above	59.74	20 00	50 00
	Below 25		3.03	2 04
	25 to 29	4.62	3.03	4 08
Gajapali	30 to 34	13.85	36.36	2143
	34 to 44	26.15	42.42	31 (7)
_	45 and above	53 85	15.15	40.82
	Below 25	1.23	10.53	3 00
	25 to 29	2 47	15.79	5.00
Kalahandi	30 to 34	14.81	47.37	21 00
	35 to 44	41.98	27.32	39 00
	45 and above	39.51	0.00	32 00
	Below 25	0.00	0.00	0 00
	25 to 29	3.45	27.27	8.26
Rayagada	30 to 34	16.09	27.27	18.35
	35 to 44	35 63	40.91	36.70
	45 and above	44.83	4.55	36 70

- The sample included a disproportionately large number of teachers from rural areas. This position is due mainly to the fact that rural schools in the sample substantially outnumber the urban schools.
- Teachers from the combined caste category i.e., 'OBC and 'others' form a sizeable segment of the Lotal sample of teachers. The predominance of ST population in all districts, barring only Dhenkanal, calls for a fresh look at increasing the number of teachers from ST communities.

Distribution of teachers by age-group (Table 3.2.2) shows almost a uniform pattern. The youngest age-group i.e., less than 25 years of age constitutes the smallest group of teachers. Teachers of the age-bracket above constitute the single largest group followed by the other words, the teachers of the age-group 35-44. In sampled schools are relatively experienced. of the disadvantages of having more aged and experienced teachers is that they tend to cling to conventional methods resist change. With the singular exception of Gajapati, in all other districts, the proportion of women teachers of the prime age-group (25 to 29) has an edge over their male counterperts.

General and Professional Qualifications

The profile of sample teachers in terms of their educational qualifications with male-female and urban-rural break-up has been presented in Table 3.2.3 and 3.2.4. The following features become pronounced:

- The proportion of teachers who are under-qualified i.e., having qualifications less than prescribed norm (matriculation) across the district accounts for nearly 18 percent of the total number teachers.
- More than one-third (35.7 %) of teachers possess prescribed general qualifications i.e., matriculation. Similarly, nearly 30 percent of teachers

Percentage Distribution of Teacher According to Educational Level (Genderwise)

	Total	19	37	83	16	-
Rayaqada	Female	9.09	6 27.27	10 45 45	3 13.64	1.55
	Male	19 54	31 35 63	26 29 89	13 14.94	000
_	Total	12	29	47	o	ო
Kalahandı	Female	0 00	4 21 05	10 52 63	4 21.05	1 5.26
	Maie	12 14 81	25 30.86	37 45.68	5 6 17	2.47
	Total	16	43	15	20	4
Gajapalı	Female	3 03	13 39.39	21.21	9 72 72	90 6
	Male	15 23 08	30 46 15	8 1231	11 16.92	- 25
	Total	24	38	24	4	2
Ohenkanal	Female	5 20.00	5 20 00	5 20.00	9 32.00	2 8.00
	Male	19 22.89	33 46 99	19 22 89	6 7.23	0.00
	Total	21	39	35	17	2
Balangir	Female	3.85	6 23 08	9 34.62	34.62	3.85
	Male	20 22.73	33 37.50	26 29 55	8 9.09	1.14
		8th Class	Secondary	Higher Secondary	Degree	Post-Graduate

Table 3.2.4

Percentage Distribution of Teacher According to Educational Lovel
(Locationwise)

District	Qualification	Rural	Urban	Total
	8th Pass	21.21	0.00	18 42
	Matriculation	36,36	20 00	34 21
Balangır	Hr Secondary	25 25	66 67	30.70
	Graduation	15.15	13 33	14 91
	Post-graduation	2.02	0 00	1.75
	8th Pass	25 84	7,69	23 53
	Matriculation	37.08	38,46	37 25
Dhenkanal	Hr Secondary	24.72	15.38	23 53
	Graduation	12.36	23.08	3 73
	Post-graduation	0.00	15 38	1 96
	8th Pass	18.29	6 25	16 33
	Matriculation	46.34	31 25	43.88
Gajapati	Hr. Secondary	12,20	31.25	15 31
	Graduation	18.29	31.25	20 41
	Post-graduation	4 88	0,00	4 OB
	8th Pass	11 96	12.00	12.00
	Matriculation	58.26	37.50	29.00
Kalahandi	Hr. Secondary	48,91	25.00	47.00
•	Graduation	7.61	25.00	9.00
	Post-graduation	3.26	0.00	3.00
	8th Pass	14 61	30.00	17.43
	Matriculation	37.08	20 00	33.94
Rayagada	Hr. Secondary	32.58	35 00	33.03
	Graduation	14.61	15.00	14.68
	Post-graduation	1.12	0.00	0 92

have studied beyond matriculation level i.e., upto Higher Secondary. Taken together, these two groups of teachers constitute more than 60 percent of total corpse of teachers. The range being from 59.17 percent in Gajapati to 76 percent in Kalahandi.

Table 3.2.5 presents the distribution of primary school teachers on the basis of type and level of professional training they have undergone. Among the who possess qualifications in teacher training, majority of them, male and female teachers, have Elementary Teacher Training Course. However, a higher percentage female teachers posses higher professional training qualification such as B.Ed. A phenomenon observed not infrequently, in Orissa like other states is that greater proportion of women teachers persever to upgrade their general and professional qualifications during their teaching career.

With regard to professional qualification possessed by teachers on the basis of rural-urban break-up, significant pattern emerges. This could be explained by the fact that an uniform process of selection recruitment of teachers is followed with the over-riding emphasis on prescribed minimum qualification. Moreover, primary school teachers are transferred from rural to urban areas and vice versa disregard of their qualifications.

In-service teacher training is considered to be the weakest link of our teacher training programme. Teachers need recurrent training to update and enrich their subject knowledge and teaching competencies. The need for inservice training felt by teachers is an indication of the inadequacy, irrelevance and outdatedness of their pre-service training experience. About half of the total number teachers of Balangir, Dhenkanal, Gajapati and Kalahandi expressed their desire for undergoing inservice training (Table 3.2.6),

Table 3.2.5
Percentage Distribution of Teachers According to Professional Tealning

District	Teachers	G	onderwis	е	Locationwiso		
District	Training	Male	Female	Tolal	Flural	Urban	ľotal
	Primary/ Elementary Teacher Certificate/ Diploma	82.05	68.97	7B.5	78 02	18 25	78.5
Dhenkanal	Graduate Trained (B Ed or Equivalent)	17 95	24.14	19,63	19 78	18.75	19 63
	M.Ed & above	0	6.9	1.87	22	0	1 87
	Primary/ Elementary Teacher Certilicate/ Diploma	92.75	73 08	87.37	88.89	78 57	87 37
Rayagada	Graduate Trained (B Ed or Equivalent)	7.75	26 92	12,63	11 11	21 43	12 63
	M.Ed, & above	0	0	0	0	0	()
	Primary/ Elementary Teacher Certificate/ Diploma	90.32	77 14	B5.57	02.72	100	85 57
Kalahandi	Graduate Trained (B.Ed. or Equivalent)	9,68	22.86	14.43	17 28	0	14 43
	M Ed. & above	0	0	0	0	0	()
de de la companya de	Primary/ Elementary Teacher Certificate/ Diploma	94 74	68.42	89.47	90) B	75	89 47
Balangır	Graduate Trained (B.Ed. or Equivalent)	5.26	26.32	9,47	8 05	25	9 47
	M.Ed. & above	0	5.26	1.05	1.15	0	1.05
	Primary/ Elementary Teacher Certificate/ Diploma	89 02	83.33	88	87 65	89.47	(18
Gajapati	Graduate Trained (B Ed or Equivalent)	10.98	16.67	12	12.35	10 53	12
	M.Ed. & above	0	0	0	0	0	()

Table 3.2.6

Percentage of Teachers Desiring Inservice Training

District	Percentage
Balangir	43.85
Dhenkanal	53.92
Gajapati	46.94
Kalahandi	49.20
Rayagada	63.30

Instructional Facilities

Availability of essential facilities in achools has considerable bearing on the performance of teachers. Teaching-learning process in schools cannot be conceived of without certain essential facilities like blackboard, duster, chalk, teachers' table, and cup-board. are classical instructional facilities. On the basis of analysis of data collected from the field, following conclusions could be drawn :

- Three essential instructional items like blackboard, duster and chalk are almost universally available to schools irrespective of their rural-urban location.
- Inter-district variation is almost non-existent indicating the indispensibility of these classical facilities.
- However, with regard to the availability cupboards, on an average, of only one-fifth o f primary schools across the DPEP districts the privilege of having cupboards. Minimal variation exists inter-districtin respect of this item.

A similar level of provision of teaching aids is found to exist in primary schools of all the project districts (Table 3.2.7).

Table 3.2.7

Percentage of Teachers Reporting Availability of Teaching Aids

Teaching Aid	Balangır	Dhenkanal	Gajapati	Kalahandi	Rayagada
Teachers Guide	86 80	39.20	77 60	59.00	64.20
Dictionary	97 40	99 00	87 80	81 00	85 30
Мар	97 40	98 00	62.20	88 00	92 70
Globe	93 90	94.10	88 80	81 00	86 20
Charts	93 00	91.20	90.00	71.00	71 E ₃ ()
Flash Cards	91 20	58 80	85 70	41 00	45 00
Science Kit	90 40	88.20	63,30	60.00	75 20
Malhematics Kit	88 60	84 30	87.80	67.00	80.70
Others	61 40	36 30	88.80	19 00	18 30

Contrary to the common observation based entirely on the general poverty and backwardness of the it is revealed that teaching aids like teachers handbooks, dictionary, maps, globes and charts are available universally in schools of the five districts with slight interdistrict variations. Almost 90 percent of schools possess basic teaching aids. Probably, this favourable situation could be explained partly by the supply materials to schools coming under the purview of partly by the preferential treatment accorded the KBK districts which include Balangir, Kalahandi Rayagada, three out of the five DPEP districts. development that might have contributed to this relatively bright situation is the Anandamaya Siksha training programme launched by Unicef in Orissa.

Teaching-Learning Process

Teaching pattern in schools is decided largely by a number of static and dynamic variables. Availability of teachers, provision of classrooms, viability of class size, etc. invariably dictatesteacher to select the pattern of teaching and mechanics of classroom management. compulsions that make schools to adopt multigrade teaching strategies include, more often then not, are (i) availability of required number of teachers in schools; absence of classrooms to accommodate children: small-sized classes which are not economically viable and sustainable.

Practice of Multigrade Teaching

Districtwise variations though, not very wide, are perceptible with regard to practice of multigrade teaching, as reported by the sample teachers (Table 3.2.8).

Table 3.2.8

Teaching Practice in Multigrade Situation

Districts	Simultaneous		Ni	ımber	ol Teach	ers	
	Teaching	1	1ale	Fe	male	T	otal
Balangir	Yes	66	57 89	7	0 14	73	64 04
	No	22	19 30	19	1G.67	41	35 96
Dhenkanal	Yes	42	41 18	9	8.82	51	50 00
	No	35	34 31	16	15.69	51	50 00
Gajapati	Yes	42	42 86	21	21.43	63	64.29
	No	23	23.44	12	12.34	35	35 71
Kalahandi	Yes	49	48.51	9	8.91	58	57 43
	No	33	32.67	10	9,90	43	
Rayagada	Yes	46	42.20	6	5 50		42 57
	No	41	37.61	16	14.68	52 57	47.71 52.29

Multigrade teaching is practised in almost 51 percent of schools across five DPEP districts. The extent of practice of multigrade teaching is lowest in Rayagada (47.7₂₎ and highest in Gajapati. When the prevalence of multigrade teaching practice by teachers is viewed from the gender perspective, it is found that Involvement of male teachers in multigrade teaching setting is pronounced than that of female teachers. In case of Gajapati district, the extent of involvement of female teachers is relatively higher compared to other districts.

Probing a little deeper into the mechanics of multigrade teaching, about 50 percent teachers reported engaging the other groups in copying from books/notes. Non-adoption of the practice of "peer tutoring" is indeed disturbing for it goes against the more-often observed practice. Two activities namely "copy work" and "wait, work on their own play" constitute together the single largest activity that teachers get the non-targetted children engaged in. The situation obtained calls for an a fresh look at the mechanism of facilitating peer tutoring, group work and self-learning which tend to make learning more effective and sustainable.

Time spent on Teaching Activity

Learning outcome, research evidence suggests, is a function of the quantum of effective time spent on a learning task. The teachers were asked to rank the activities related to teaching on which they spend maximum time.

The ranks assigned to different activities by the teachers on a descending rank order scale (as first, second, third, fourth and fifth preference) have been shown in Table 3.2.9.

Table 3.2.9

Ranking of Teaching Activities by Time Spent

Teaching Activities		Preference	ce in Time	Allocation	c	
	lst	2nd	3rd	4th	5th	Total
Planning and class Preparation	17.05	BALANGIR 20.22	14.38	31.46	16.89	100
Homework & Test correction	35.91	45.36	08.23	02.79	17.70	100
Holding extra classes Giving Tuition	65.32	20.91	03.52	07.11	03.14 36.39	100
Providing feedback	22.57	15.34	41.98	10.15	96.60	100
Planning and class preparation	05.39	DHENKANAL 10.91	AL 25.39	40.05	18.26	100
Homework & test correction	о Н	37.23	18.46	19.99	09.28	100
Holding extra classes Giving Tuition Providing feedback	0 H C C C C C C C C C C C C C C C C C C	15.18 25.75 19.37	06.32 18.87 39.11	14.27 15.03 10.00	11.66 29.96 18.97	100 100 100
	-					

Contd..

Table 3.2.9 (Contd)

Teaching Activities	lst	2nd	3rd	4th	5th	Total
or prince the class	12.36	GAJAPATI 22.57	I 41.22	15.39		0 e î
ion & Te	31.93	36.00	17.89	07.18	00.70	100
ı ı ı	58.77 21.78 17.01	24.98 14.37 28.23	07.33 10.10 08.77	03.39 39.67 18.03	05.53 14.08 27.96	100
	l L	KALAHANDI	DI 07.76	50.11	07.24	100
planning and class preparation	15.32	7.6	28.14	20.56	11.72	100
correction Holding extra classes Giving Tuition	0.3	16.67	07.66 09.90	02.93 05.36 18.50	12.39 41.11 09.33	100 100 100
Providing feedback	12.23					
Planning and class	21.33	RAYAGADA 25.71	3 A 19.66	29.83	03.47	100
preparation Homework & Test	26.23	39.54	15.29	09.37	09.67	100
correction Holding extra classes Giving Tuition Providing feedback	57.55 18.73	11.65 22.67 19.03	08.88 34.36 25.78	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.99 18.62 30.67	100

As evident from the Table above, nearly 65 percent of teachers in Balangir, 53 percent in Dhenkanal, 59 percent in Gajapati, 60 percent in Kalahandi and 58 percent Rayagada report that they spend maximum time on extra classes for children as a major measure of providing assistance. Correspondingly, more than 10 percent teachers in Balangir, 26 percent in Dhenkanal, nine percent in Gajapati, 15 percent in Kalahandi and 22 percent Rayagada report that a very little time or no time l S spent on this activity. The next activity in order importance is found to be homework and test correction that consumer the second maximum amount of time large majority of teachers. The least preferred activity to receive minimal amount of instructional time is identified to be planning and class preparation. Common, careful observation, amply attests this empirical evidence, However, planning and preparation for teaching is a crucial pedagogical input which should receive the magnitude of priority it deserves.

Use of Textbooks and Teaching Materials

While teaching in classroom, teachers make of textbooks and specially prepared materials. The extent use of textbooks and specially prepared in teaching language and mathematics by gender has been reflected in Table 3.2.10. In general, teachers textbooks more frequently and for longer duration time while teaching language than while teaching mathematics. trend could be deciphered from the Table. ľn all the districts, textbook is heavily relied upon while teaching language (Oriya). On the other hand, while teaching mathematics, specially prepared materials more frequently and more extensively used. The extent of use of specially prepared materials in teaching language 18 Therefore, the action point that emerges is that in-service training programme should concentrate on developing and using such materials.

Table 3.2,10

Percentage of the use of Text books and teaching materials (Genderwise)

D	Ordinana	l	anguago		М	athematic	3
. District	Options	Male	Female	Total	Male	Lemale	Fotal
	Texlbooks	82 93 18	2 <u>2</u> 84 62	104	59 67.05	13 50 00	72
Balangir	Specially Prepared materials	5 5 6 8	4 15 38	9	24 27 27	9 34 62	33
	Do not teach these subjects	1 14	0 0,00	1	5 5 68	4 15 38	9
	Textbooks	67 87 01	19 76 00	86	41 53 25	15 60 00	56
Dhenkanal	Specially Prepared materials	6 7 79	5 20 00	11	36 46 75	10 40 00	46
	Do not leach these subjects	4 5 19	1 4.00	5	0 0 00	0 0 00	0
	Texibooks	61 93 85	32 96.97	93	53 81 64	25 /8 79	70
Gajapati	Specially Prepared materials	2 3 08	0 0 00	2	12 18 46	6 18,18	18
	Do not teach these subjects	2 3.08	1 3.03	3	0 00	1 3 03	1
	Texibooks	70 86 42	19 100.00	89	41 50.62	40 81,63	51
Kalahandi	Specially Prepared materials	7 8 64	0 0.00	7	35 43.21	8 16 33	43
	Do not leach these subjects	4 4.94	0,00	4	6 6.17	1 2.04	6
	Texlbooks	79 90.80	20 90.91	99	72 82.76	19 86,36	91
 Rayagada	Specially Prepared materials	2 2.30	1 4.55	3	11 12.64	2 9 09	13
	Do not teach these subjects	6 6 90	1 4,55	7	4 , 4.60	1 4 55	ţ ₃

Teachers use a variety of materials while teaching different subjects in the class. They were asked to indicate as to who prepared the teaching materials they make use of in the classroom. The data obtained from the structured interview have been presented in Table 3.2.11. The following broad trends among the districts have enolved:

- Except Gagapati, in all other districts teachers prepare teaching materials. οT be 58.6 percent of more specific, about teachers in Balangir, Dhenkanal, Kalahandi and Rayagada report that they prepare teaching materials in teaching. Self-designed teaching for use materials and teaching materials provided school together are used by almost all teachers. There are only 1.02 to 14.0 percent teachers reporting use of student-prepared teaching materials. A similar pattern is found in case of teachers from rural areas.
- Gender variation is exhibited in the use of selfprepared teaching materials. Higher' percent of women teachers report that they use teaching materials prepared by This them. indicates the genuine involvement of women teachers teaching learning process and in developing low-cost and no-cost teaching aids.

It is a fact that textbook is the only teaching-learning material that is possessed practically by all children. Moreover, textbook is the most valued material for the child to refer to at home. Table 3.2.12 deals with information on the purpose for which textbooks are used by teachers in the classroom.

It is evident from the table that almost all teachers use textbooks with implied intention of covering the prescribed syllabus in preference to making children learn. The analysis also reveals that to read by taking recourse to conventional and arm-chair practice of asking children to read aloud, to read on their own in the absence of teacher, and constantly reading out from the textbook,

Table 3.2.11

Teachers Reporting Preparation of Teaching Materials

District	Preparation of	G	ienderwisi	8	Lo	calionwis	9
District	Teaching Materials	Male	Female	Total	Rural	Urban	Total
	Self	61,36	73,08	64 04	64.65	60 00	61 00
	Students	13.64	7,69	12,28	12 1 <i>2</i>	13 33	12 28
Balangır	Provided by School	10 23	14 23	2 63	11.11	20 00	12 28
	Any other	3 41	0 00	2.63	3 03	0 00	2 GO
	NA	11 36	0 00	9 77	9 09	6 67	H 77
	Self	50 62	44 00	50 98	58 33	23 OB	50 98
	Students	4 94	8 00	5.88	7.14	0 00	5 00
Dhenkanal	Provided by School	50 93	32,00	28 43	29 76	30 77	20 43
	Any other	4 94	0.00	0 00	0.00	0 00	0 00
	NA	13 58	16 00	14.71	4.76	46 15	14 71
	Self	35 38	42 42	37 76	40 24	15 38	37.76
	Students	0.00	3.03	1 02	0,00	3.85	1 02
Gajapati	Provided by School	35 38	, 21 21	36.61	28 05	26 92	30 61
	Any other	4 62	3 03	4.88	3.66	3 85	4 08
	NA	24.62	30.30	20 53	28 05	50.00	26 53
	Self	62.96	57.89	62,00	59.75	87 50	65, 10
	Students	12.35	21.05	14.00	15.22	0 10	14 10
Kalahandi	Provided by School	9 88	10 53	10.00	10 87	0 00	10 00
	Any other	1.23	0 00	1 00	1.09	0 00	1 00
	NA	13,58	10.53	13.00	13.04	12.50	13 00
	Self	59 77	72.73	61.32	61.80	65.00	62 39
	Students	6.90	0 00	5.66	4,90	10 00	5.50
Rayagada	Provided by School	20.69	18.18	20.75	19.10	21 00	20.18
	Any other	4.60	4,55	4.72	5.62	0.00	4.69
	NA	8.05	4.55	7.55	8.99	0.00	7.34

teaching- learning process is rendered dry, drab and dreary. Such teaching-learning process is uninteresting, unproductive and wasteful. We have to ward off such joyless

Table 3.2.12 Use of Text books by Teachers

Text Used	Balangir	Dhenkanal	Gajapali	Kalahani	
Read and explain from lextbooks	109 95.61	99	91	Kalahandi 96	Flayagad
Ask children to read aloud	96	97.05	92.86	96.00	100 98.0
Ask children to read from the	84.21	93 91.18	92 93,88	88:00	89
lexibook on their own	107 93.86	96 94.12	89	91	81.6
Assign home work from	103		90.82	91.00	101 92 . 66
lexibook	90.35	93 91.18	95 96.94	93	104
Do not use textbooks at all	44 38.60	88	8	93.00	95.41
	00.00	86.27	08.16	$\begin{array}{c c} 13 \\ 13.00 \end{array}$	11 LO.09

A small fraction of teachers (except 86% of teachers in Dhenkanal) have reported that they donot use textbooks at all which is outrightly not acceptable.

Home Assignment

Home work is regular in most of the cases (Table 3.2.13). Barring the singular exception of Kalahandi (where more number of teachers reported giving homework"sometimes") in the remaining districts more than seventy percent of teachers regularly give home assignment to children. This information provided by the teachers was by children. confirmed

Table 3.2.13
Percentage of Distribution of Teachers Giving Homework

Districts	Homework Given	Percentage of Teachers
Ba	Regularily	77 19
a n	Sometimes	19.29
9	Not at all	3 52
D h e	Regularily	71 57
n k a	Sometimes	23 53
n a l	Not at all	4.90
G a	Regularily	62.22
l a p a	Sometimes	32.65
1	Not at all	5 13
K a I	Regularily	43 00
a h a	Sometimes	55.00
n d ı	Not at all	2.00
R a	Regularily	74.31
y a g a	Sometimes	23.85
d a	Not at all	1.84

Table 3.2.14
Distribution of Teachers Giving Home Work in Language
(in terms of number of pages)

		G	enderwise		Lo	callonwise	,
Districts	No of Pages	Male	Female	Total	Aural	Urban	Total
	Zero	0.00	0.00	0,00	0.00	0 00	0.00
	One	36.36	14.23	32.46	34.34	20 00	32 46
Balangir	Two	50 00	46.11	49.12	49.49	46 67	49 12
	Three	10 23	7.69	9.61	9.09	13 33	9 65
	Four	1,14	7 69	2.63	3,03	0 00	2 63
	Five and more	2 27	19 23	6 14	4 04	20 00	6 14
	Zero	0 00	0.00	0 00	0.00	0 00	0 00
	One	59 74	40.00	54 90	55,06	53 85	54 90
Dhenkanal	Two	24.68	40 00	28.43	28 09	30 /7	28 43
:	Three	2.60	4 00	2 94	2.25	7 69	2 94
	Four	3.94	8 00	4 90	4.49	4 69	4 90
	Five and more	9 09	8 00	8 82	10.11	0.00	B 82
	Zero	0 00	0 00	0,00	0.00	0.00	0 00
	One	55.38	63 64	58 16	54,88	75.00	58 16
Gajapati	Two	24.23	33 33	30 61	33 92	18.75	30 61
	Three	12.31	3.03	9 18	9.76	6.25	9 1ស
	Four	0 00	0.00	0 00	0.00	0 00	0.00
	Five and more	3.08	0 00	2 40	2.44	0 00	2 04
	Zero	0.00	0 00	0.00	0 00	0 00	0.00
	One	55.38	63.64	58.16	42.39	85 50	46.00
Kalahandi	Two	29 23	33,33	30.61	40.22	12.50	38.00
	Three	12.31	3,03	9.18	5 43	0.00	5 00
	Four	0.00	0.00	0.00	4 35	0 00	4 00
	Five and more	3.08	0 00	2 04	7.61	0.00	7.00
	Zero	0.00	0 00	0.00	0.00	0 00	0 00
	One	28.74	45 45	32,11	33.71	25.00	32 71
Rayagada	Two	40,23	13 64	34,86	35.96	30.00	33 64
	Three	19.54	18.18	19.27	21.35	10 00	19.63
	Four	5.75	4.55	5.50	5.62	5.00	5.61
	Five and more	5 75	18.18	8.26	3.37	30 .00	8 41

Table 3.2.15

Distribution of Teachers Giving Home works in Mathematics in terms of Number of Sums

Districts	Numb	G	enderwise	e	Lo	cationwis	e
Districts	& Sums	Male	Femal	Total	Rural	Urban	Total
В	0	6 81	15,38	8 77	6.06	26.61	8 77
a -	1 to 3	18 20	15 38	17 54	19 19	6 61	17.55
a n	4 to 6	64 7 7	61 54	64 04	66 67	46 67	64 03
g 	7 to 9	2 27	3 85	2.63	2.02	6.67	2,63
r	10 lo 15	7 95	3 85	7 02	6.06	13 32	7.02
Ď	0	6 49	0 00	4 90	5 62	0,00	4 90
h e	1 to 3	5 19	12 00	6.86	5.62	15 38	6.86
n k	4 to 6	66 54	72 00	68 62	68 54	69,23	68.63
a N	7 to 9	7 79	44 00	6 86	7.87	0,00	6.86
a 	10 to 15	12.99	12 00	12 76	12.35	15,39	12 75
G	0	9.23	3 00	7.14	7.50	6.25	7.29
a I	1 to 3	13.85	12.12	13 27	13.75	12.30	13 54
a p	4 to 6	60 00	72 73	64 29	61.25	75.00	63 54
a t	7 to 9	6 15	6 06	6.12	7.50	0.00	6 25
i i	10 to 15	10 77	6 06	9.18	10.00	6 25	9 38
К	0	6 17	5 26	6.00	5 43	12.50	6.00
a l	1 to 3	12.35	10.53	12.00	9.78	3 7 50	12.00
a h	4 lo 6	65 43	78.95	68 00	69.57	50,00	68.00
a n	7 10 9	7.41	5.26	7.00	7.61	0.00	7.00
d i	10 to 15	8.64	0 00	7.00	7.61	0 00	7 00
R	0	11 49	4 54	10.09	11.24	5.00	10.09
a y	1 to 3	11 49	9 09	11.01	11,24	10.00	11 01
a g	4 to 6	56 32	15 09	56 88	57.30	55 00	56 88
a d	7 lo 9	13 00	13.64	12.84	11.24	20 00	12.84
a	10 to 15	8 05	13 64	9 18	8.98	10.00	9.18

The regularity or otherwise of giving home assignments to children is of little significance unless the quantum of assignment given in language and mathematics is ascertained. With this in view, the Teacher Schedule has been designed to seek information about the quantum of assignment in language in terms of number of pages and assignment in mathematics in terms of number of sums (Table 3.2.14 and 3.2.15).

In language, the majority of teachers reported giving assignment between one to two pages in all the districts (Balangir: 60.3%; Dhenkanal: 83.3%; Gajapati: 88.8%; Kalahand: 88.8%; and Rayagada: 69.7%). In mathematics majority of teachers (on an average 63.5%) reported giving 4 to 6 sums to the pupils in the form of home assignment. There are 7.4 percent of teachers across the districts who reported absence of practice of giving home assignment. Variation in percentages between male and female teachers in respect of quantum of assignment is, however, not very pronounced.

For most of the children of the state, more particularly, for the children of the DPEP districts, textbooks remian an exclusive possession. In the absence of workbook for students, the importance of home assignment cannot be undermined. But a balance needs to be struck between home assignment for reinforcement and consolidation of concepts and competencies taught, and reducing the gravitational and incomprehension load on the children. The issue calls for a fresh look.

Supervision of Classes

Teachers' responses with regard to supervision of their classroom teaching by the headmaters of primary schools and by departmental higher officers like BEO/DEO reveal a very dismal and disappointing situation (Table 3.2.16). It could be seen that more than two-thirds of teachers(66.18%) report that headmasters do not supervise their classes and do not give constructive feedback to improve their teaching performance. The situation almost

does not vary in districts. The visits of the BEO and the DEO is occassional and perfunctory. The supervision is almost non-existent.

Table 3.2.16

Distribution of Teachers Reporting Classroom Supervision (%)

District	Headmaster	BEO/DEO
Balangir	65.00	90.15
Dhenkanal	58.35	88.57
Gajapati	67.64	91.38
Kalahandı	70.39	94.85
Rayagada	69.51	95.63

Interactions with the teachers and supervisory observations of the BEO/DEO bring to light the nature and depth of supervision. The main tasks of BEOs to concentrate on administration, evaluation of teachers and other non-academic matters. The field notes a wealth of information about the futility of supervision exercise. This type of attitude and indifference of BEOs are counter-productive school to improvement. One the plausible reasons for no-supervision by headmasters is that they do not have, in most of the cases, higher educational qualifications and professional leadership.

Teachers' Status in Schools

No uniform pattern emerges regard to the reasons for which the teachers have been in the present school

Table 3.2.17

Distribution of Teahers According to Reasons for being in the present School

		Numi	ber of Tead	hers
Districts	Reasons	Male	Female	Total
	Personal and Family	19 32	30.77	27 93
	Compulsory Transfer	46,59	46.15	46 49
	Higher Salary and Benefits	2.27	0 00	1 75
Balangir	Greate Job Security	2 27	7.69	3 57
	Greater Job satisfaction	4 55	7.69	5,26
	Less Work Load & Responsibility	0 00	0.00	0 00
	Other reasons	18.18	0 00	14.04
	NA	6.82	7.69	7 02
	Personal and Family	20.78	48.00	27 45
	Compulsory Transfer	3.90	0.00	2 44
	Higher Salary and Benefils	10 39	12.00	10 78
Dhenkanal	Greater Job Security	1.30	0 00	0 98
	Greater Job satisfaction	6 49	4 00	5.88
	Less Work Load & Responsibility	1.30	0 00	0.98
	Other reasons	51.95	28.00	46 08
	NA	3.90	8,10	4.90
	Personal and Family	10.77	15,15	12.24
	Compulsory Transfer	12.31	9.09	11.22
	Higher Salary and Benefits	0.00	0.00	0.00
Gajapati	Greater Job Security	1.54	3.03	2.04
	Greater Job salisfaction	6.15	3.03	5.10
	Less Work Load & Responsibility	0 00	0.00	0.00
	Other reasons	56.92	45.45	53.08
	NA	12.31	24.24	16.33

Table (Contd.)

Distribution of Teachers According to Reasons for being in the present School

Districts	Doggona	Numl	ber of Tead	chers
Districts	Reasons	Male	Female	Total
	Personal and Family	17 28	31,58	20.00
	Compulsory Transfer	55.56	42.11	53 00
	Higher Salary and Benefits	8.64	0.00	7,00
Kalahandı	Greate Job Security	1 23	0 00	1 00
	Greater Job satisfaction	8 64	5.26	8 (10
	Less Work Load & Responsibility	0.00	0 00	0,00
	Other reasons	0.00	5,26	1 00
	NA	8 64	15.79	10,00
	Personal and Family	36 63	40 91	36,70
	Compulsory Transfer	36.78	31 82	35.78
	Higher Salary and Benefits	0,00	4.55	0.92
Rayagada	Greate Job Security	1.15	0.00	0.92
	Greater Job satisfaction	5.75	4 55	5,50
	Less Work Load & Responsibility	0,00	0.00	0.00
	Other reasons	9.20	9.09	9.17
	NA	11.49	9.09	11.01

(Table 3.2.17). Analysis of the responses of teachers brings to light the following:

- "Compulsory transfer" as a reason is found to be predominant in Balangir (47%), Kalahandi (53%) and Rayagada (36%). This incidence of compulsory transfer needs to be examined objectively. In case of Gajapati and Dhenkanal, "other reasons" is stated to be a pronounced factor.
- The compulsion of "personal and family" concerns seem to be the major reason for women teachers for being at the present school. This reason appears to have a strong sway with women teachers in Balangir, Dhenkanal, Kalahandi and Rayagada. It is a matter of grave concern that very few teachers reported enjoying job-satisfaction being in the present school. Personal concerns and interests appear to have taken precedence over academic and pedagogic concerns.

Assistance from School Heads

3.2.18 deals with information about extent of help the headmasters extend to their colleagues in executing their teaching tasks. The headmaster tially plays the role of a manager as the supplier of services to satisfy and exceed the consumers Therefore, his/her relationship and role have a direct impact on the teacher morale and self-confidence teaching-learning process. The data reveal interesting situation rather a mixed picture. The difference between "very helpful" and "not helful" appears to marginal. Field notes are more expressive of the antagonistic attitude, authoritanism, lack of interest concern for co-workers and non-involvement in the teachinglearning process. Even some of the teachers reported that headmasters do not take classes and pleasing the administration remains the major preoccupations the heads.

Table 3.2.18

Distribution of Teachers According to the Extent of Help Received from Head Teacher + Principal

District	Kind of Cabani	G	enderwis	е		Locationy	/160
District	Kind of School	Male	Female	Total	Rural	Urban	Total
,	Not Applicable	0 00	0 00	0.00	0.00	0 00	0 00
Poloneis	Very Helpful	46 59	38 77	42.98	44.24	33 33	42 98
Balangir	Somewhat Helpful	18.18	61 54	28.07	25 2 5	46 67	28 07
	Not Helpful	35 23	7 69	28.95	30.30	20 00	28 95
	Not Applicable	0.00	0 00	0.00	0 00	0 00	0 00
Di autona)	Very Helpful	19.48	36 00	23 53	24 72	15 38	23 53
Dhenkanal	Somewhat Helpful	32 47	44.00	35,29	33 71	46 15	35 29
	Not Helpful	48.05	20.00	41 18	41.57	38 46	41 18
	Not Applicable	0 00	0 00	0.00	0.00	0 00	0 00
	Very Helpful	43.08	48 48	44.90	43 90	50 00	44.90
Gajapati	Somewhat Helpful	12.31	30 30	18,37	18.29	18.75	18 37
	. Not Helpful	44.62	21 21	36.73	37.80	31.25	36.73
	Not Applicable	0.00	0.00	0.00	0.00	0.00	0 00
14-1-b 4 - 4!	Very Helpful	24.69	21.05	24.00	22.83	37.50	24.20
Kalahandi	Somewhat Helpful	28,40	36,84	30.00	28.26	50.00	30.00
	Not Helpful	46.91	42.11	46.00	48.91	12.50	46.00
,	Not Applicable	0.00	0.00	0.00	0.00	,0.00	0.00
Bayanada	Very Helpful	33 33	68 12	40.37	38.20	50.00	40.37
Rayagada	Somewhat Helpful	24.14	22.73	23,55	22,47	30.00	23.85
	Not Helpful	42.83	9.09	35.78	39,33	20.00	35.78

Table 3.2.19

Distribution of Teachers According to the Extent of Help Received from Block Education Officer

		Numbers of t		chers
District	Categories	Male	Female	Total
	Not Applicable	0 00	0.00	0 00
	Very Helpful	13.64	23 08	15,79
Balangır	Somewhat Helpful	59 09	38,46	54 39
	Not Helpful	27 27	38 46	29 82
	Not Applicable	0 00	0 00	0 00
Dhenkanal	Very Helpful	11.69	8 00	10 78
Dhenkanar	Somewhat Helpful	75.32	88.00	78,43
	Not Helpful	12.99	4.00	10 78
	Not Applicable	0 00	0 00	0 00
Gajapati	Very Helpful	7 69	18.18	11.22
Сајаран	Somewhat Helpful	6 7.69	63 64	66,33
	Not Helpful	24.62	18.18	22.45
	Not Applicable	0.00	0.00	0,00
Kalahandi	Very Helpful	29 63	10 53	26,00
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Somewhat Helpful	37.04	52.63	40 00
	Not Helpful	33.33	36.84	34.00
	Not Applicable	0.00	0,00	0,00
Deve	Very Helptul	20.69	31.82	22.94
Rayagada	Somewhat Helpfui	87.47	59.00	55.96
	Not Helpful	21.84	18.18	21.10

Block Education Officers' Support

Next to heads, the teachers expect seek assistance and guidance from the BEO to function as effective "actors" in schools. Overall, the teachers appear to be satisfied with the assistance provided to them by the BEOs. The extent of assistance seems to be moderate: majority of teachers reported that the BEOs are "somewhat helpful". This position is in direct contradiction with the earlier finding that BEOs almost do not supervise classes. However, aspects of such assistance need to be studied in details (Table 3.2.19).

Colleagial Support

Table 3.2.20 pertains to the support, assistance co-operation the respondents receive from colleagues in schools. Teachers in primary schools not work in a situation of isolation and insularity. On the other hand, they work in company with their co-workers i.e., the other teachers. A look at the Table that majority of the teachers have expressed their apprecition about the extent of assistance they receive from their colleagues. This becomes more explict when graded preferences, namely "very helpful" and "somewhat helpful" are combined. However, a somewhat seething dissatisfaction appears to be evident. The percentage of teachers who have reported "not helpful" is not very small. Ther percentages for Balangir, Dhenkanal, Gajapati, 33.9, 29.9, 30.8, 50.6 Kalahandi and Rayagada are 51.7 respectively. The extent of distrust and dissatisfaction is high enough in Kalahandi and Rayagada. composition of teachers community by residence and nonresidence(ST and Non-ST) in these two ST dominated districts and aspects of assistance will provide greater insight into primary schools. Less number women teachers than male have reported that their colleagues are not helpful to them.

Table 3.2.20

Distribution of Teachers According to the Extent of Help
Received from Primary Teachers

		G	ienderwis	Ð	l ocal	lonwise
District	Frequency ()	Male	Female	Total	Rural	Urban
	Very Helpful	28,41	14,23	26.32	25.25	33 33
Balangir	Somewhal Helpful	38 64	61,54	43,86	42.42	53 33
	Not Helpful	32.95	19 23	29,82	32 32	13 33
	. Very Helpful	14 23	16.00	14.71	16,85	0 00
Dhenkanai	Somewhat Helpful	55.84	64.00	57.84	55,06	76 92
	Not Helpful	29 87	20.00	27 45	28 09	23 08
	Very Helptul	30 77	24.24	28 57	29 27	25 00
Gajapatı	Somewhat Helpful	38.46	51,55	43.88	41.40	56.25
	Not Helpful	30 77	21.21	27 53	29 ! 7	10.75
	Very Helpful	88.6	5,26	9.00	761	.25 00
Kalahandı	Somewhat Helpful	39,51	47,37	41.00	39 13	62 50
	Not Helpful	50 62	47.37	50.00	53 26	12 50
	Very Helpful	21.84	36,36	24.77	23,60	30 00
Rayagada	Somewhat Helpful	36.44	22.73	25.69	26 97	00,08
	Not Helpful	51.71	40.91	49,54	49 44	50 00

Preference of Schools for Children

Almost an identical preference pattern evolved with regard to type of school the teachers would for education of their children. Predominantly number of teachers chose government schools. No variation is found to exist in the pattern of preference of teachers either on the basis of gender or on the basis of location (Table 3.2.21). Two plausible reasons that substantiate government schools are this position are : (1) and educational services provided are entirely subsidized, (ii) non-availability and non-viability of private schools in the districts. Gajapati district Indicates a somewhat equal preference for 'government' and 'private' (aided and unaided) schools.

Characteristics of Head-teachers

Head-teachers formed a special purposive sub-sample of teachers. This was done primarily because of the specific and special responsibilities they have which are not shared by other teachers. The analysis of the second part TS brings into focuss the following findings:

- Nearly 92 percent of headteachers reported checking diaries, preparing monthly tests, taking decisions on pupils promotion, etc.
- More than three-fourths of headteachers reported that they observed classroom teaching of teachers and suggested improvements. This finding, when juxtaposed with the extent of supervision of classes (Table 3.2.16) reported by teachers contradicts their stated role in supervision. Moreover, a few case studies of diaries and supervisory notes don't support this.

Evaluation of Teacher Performance

Table 3.2.22 presents information about the means that methods headteacher adopt in assessing or evaluating teacher performance.

Table 3.2.21
Teachers Preference for School Type for Education of their Children

		G	eiwisbna	9	Lo	calionwis	e
District	Kind of School	Male	Female	Total	Rural	Urban	Total
	Government	88 64	76 92	85,96	86.87	80 00	85 96
Dalaman	Private (Aided)	4.55	11.54	6 14	6.06	6 67	6 14
Balangır	Private (Unaided)	1 14	11 54	3.51	2,02	13 93	3,51
	No special preference	5 68	6 00	4.39	5 05	0 00	4 39
	Government	93.51	80.00	90.20	89,89	92.31	90 20
Dhenkanal	Privale (Alded)	0 00	0.00	0.00	0.00	00,0	0 00
Difficalial	Private (Unaided)	2 60	20.00	6.86	6 77	7.69	6.86
	No special preference	3 90	0 00	2.94	3 37	0 00	2.94
	Government	76.92	72 73	75 57	73.17	87 80	75 57
Gajapatí	Private (Aided)	1.54	6 06	3.06	2 44	6.25	3 ()6
Gajapati	Privale (Unaided)	16 92	18 18	17.35	19 51	6 25	17 35
	No special preference	4 62	3 03	4.08	4 18	0.00	4.00
	Government	53.09	36.84	50.00	57.09	37 50	50 00
, Kalahandi	Privale (Aided)	6 17	21.05	9,00	7.61	25.00	9 00
Naidhdildi	Private (Unaided)	33.33	36.84	34.00	33.70	37.00	34 00
	No special preference	7 41	5.26	7.00	7 61	0,00	7 00
	Government	78 16	72.78	77.06	74.11	90.00	77 00
Rayagada	Privale (Aided)	8 05	9.09	B.26	10.11	0 00	8 20
, iayayada	Private (Unaided)	11 49	13.69	11.93	12.36	10.00	11 9:
	No special preference	2 30	4.55	2.75	3.37	0.00	2.7

Table 3.2.22

Methods used by Headteachers for Evaluation

Method of Evaluation	Jst Jst	Balangir IInd	Dher Ist	Dhenkanal st IInd	Gaj, Ist	Gajapati st IInd	Kala} Ist	Kalahandı st IInd	Rayagada Ist II	yada IInd
	1									
observation	92.0	5.0	95.0	3.5	91.8	3.0	0.06	4.6	85. 0.	10.0
Students result	7.0	65.0	2.8	68.0	6.2	67.0	6.0	76.3	10.6	72.0
Teachers Notes	0.0	10.0	2.2	8.00	0.0	15.2	0.0	ر. ر	0.0	5.0
Review of Homework	1.0	20.0	0.0	25.5	2.0	14.8	4.0	16.0	4.4	13.0
Total	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0

As revealed from the Table, classroom observation is the most commonly used method of evaluating teachers performance. This finding, however, is not in conformity with other findings. Next in prominence is the students achievement as an indicator of teachers performance. The third order parameter for evaluating teachers performance is the review of home assignment given to students.

Headteachers were asked to rank factors which are helpful for the effective functioning of the schools (Table 3.2.23).

There is complete convergence of perceptions of headteachers with regard to the highest contribution of the "teacher commitment" factor to school effectiveness. This is by the will-power and efficiency of followed the headteacher, student motivation and parental cooperation In fact all these factors are interrelated and mulually reinforcing. For instance, a school with an outstanding headteacher can infuse motivation in teachers by involving them in various activities and can activate the functioning of PTAs and MTAs. What is important is planning (or a synergetic alliance of the dynamic and malleable variables that contribute to effective functioning of schools.

The headteachers were asked to report the activities for which they have main responsibility. The responses have been recorded in Table 3.2.24.

It is evident from the Table that main responsibility headteachers included : drawing up time table for classes, establishing standards for students' promotion, assigning teachers to different classes and evaluating teachers performance. However, activities in which headteachers do not have responsibility include to appointment of teachers, dismissal of teachers, and adapting syllabus to local conditions.

Table 3.2.23

Ranking of Important Factor for School Performance

Factors	Īst	1 I nd	111rd	[Vili	Vth
	В	ALANGIR			
Teacher Commitment	65.0	57.4	61.5	62.7	58.b
Parental co-operation	06.2	08.3	07.8	05.8	06.4
Student Motivation	10.50	12.5	11.6	12.1	11.7
Headteacher's will- power and efficiency	15.30	18.7	17,4	16.5	17.3
Assistance from BEO	03.00	03.1	02.7	03.7	06.0
	100.0	100.0	100.0	100.0	100.0
	D:	HENKANAL	33,000 (3,00) (3,000 (3,00) (3,000 (3,00) (3,000 (3,00) (3,000 (3,00) (3,00) (3,000 (3,00) (3,000 (3,00) (3,	mera de éve a vena a dereces e que que perior	
Teacher Commitment	56.9	59.7	58.8	6U.1	12.3
Parental co-operation	08.7	09.1	07.5	06.9	08.7
Student Motivation	10.8	11.3	10.3	09.7	09.2
Headteacher's will- power & efficiency	19.3	16.8	17.6	15.8	15.6
Assistance from BEO	04.3	03.1	05.8	07.5	04.2
	100.0	100.0	100.0	100.0	1.00.0
	(GAJAPATI		agent acceptant from the property of the control of	
Teacher Commitment	62.4 .	64.3	63.7	60.2	58.7
Parental co-operation	05.9	05.3	06.1	05.7	07.1
Student Motivation	08.7	07.8	09.3	10.1	11.8
Headteacher's Will- power & efficiency	17.6	18.1	17.5	16.8	15.7
Assistance from BEO	05.4	04.5	03.4	07.2	06.5
	100.0	100.0	100.0	100.0	100.0

Table 3.2.23 (Contd...)

Ranking of Important Factor for School Performance

				. 91 1 (/1/1	many,
	Ist	IInd	IIIrd	IVI Iı	VI []
]	KALAHANDI		Primer transmitted and more	
Teacher Commitment	59.5	58,9	60.8	67.7	61.8
Parental co-operation	07.1	07.6	07.2	0/.5	01.0
Student Motivation	08.9	08.3	08.9	01.6	08.7
Headteacher's will- Power and efficiency	17.7	18.9	18.4	18.3	17,9
Assistance from BEO	06.8	06.3	04.7	02.4	01.2
	100.0	100.0	100.0	100.0	100,0
	1	RAYAGADA		the state of the s	
Teacher Commitment	61.7	62.3	60.8	58,6	49.6
Parental co-operation	06.2	05.3	06.4	06.1	07.1
Student Motivation	08.7	09.3	10,1	09.5	08.9
leadteacher's will-	16.9	17.2	18.3	17.9	18.4
Power & efficiency					
Assistance from BEO	07.5	05.9	04.4	08.]	06.0

Table 3.2.24
Activities for Which Head Teacher has Main Responsibility

Cohool Astindon	Districts							
School Activities	Balangir	Dhenkanal	Gajapati	Kalahandi	Hayagada			
Drawaing Up time table for classes	100.0	100.0	100.0	100.0	100.0			
Assigning leachers to different classes	97.6	94.3	97.14	95.1	89.2			
Deciding on expenditure in instructional aids	61.9	68.6	60.0	53.7	40.5			
Appointing teachers to school	0.0	0.0	0.0	0.0	0,0			
Dismissing/transferring leachers from school	0.0	0.0	0.0	0.0	() ()			
Evaluating teachers performance	85.7	51.4	68.6	56.1	56.8			
Establishing standards for students promotion	100.0	100.0	100.0	95,1	91.1			
Establishing Homework Policies	95-2	97.1	91.4	97.6	86.4			
Adapting syllabus to local conditions	0.0	0.0	0.0	0.0	0.0			
Gelling extra funds for the school	30.0	40.0	51.4	51.2	21.6			

Teacher and teacher characteristics are one of the most significant inputs for school effectiveness. Indeed teacher competence and commitment make a difference to how our schools function. No quality improvement programme could be conceived and concretized without involvement of teachers. Therefore, findings that have emerged from the analysis in this section are the pointers for planning policy interventions and initiatives.

Section III

Dropout : Characteristics and Achievement

Incidence of dropout at the primary universal across the state. Educationally and economically costly phenomenon. Inter-district varial rons are not uncommon. Dropout and wastage is a drag on our endeavour directed toward achieving the composite goal of UEE. It tends to neutralise the gains achieved the enrolment and access dimension of UEE. Therefore, the present section on dropouts discusses : (i) distribution of dropouts by gender, location and social groups (ii) attendance and repetition; (iii) reasons for dropping (iv) educational aspirations; (v) placement and (vi)learning achievement of dropouts.

Distribution of Dropouts by Gender, Location and Caste

Tables 3.3.1, 3.3.2 and 3.3.3 show the genderwise, locationwise and castewise distribution ο£ dropouts. Out of 398 dropouts, as many as 130 dropouts Balangir. It may be noted here that inclusion of diopouta on availability of dropouts for interview. The inter-district variations in the number of dropouts, therefore, do not represent their proportionality the dropout populations of the DPEP districts. The percentages of dropouts (boys) and dropouts (girls) are and 45.5 respectively. The number of girl dropouts interviewed was more in Rayagada.

Incationwise distribution of dropouts indicates the predominance of dropouts from the rural sector. The overall percentage of rural dropouts in the five districts is found to be 92.3 percent. This is a reflection of the incidence of more students from rural school's dropped out than from urban schools. This aspect should be considered with caution because it is difficult to locate dropouts in urban areas than from villages. Neverthdess, dropout is more a phenomenon in rural than in urban primary schools on account of several reasons.

Let us examine the distribution of dropouts by social groups. The intention is to see if their disadvantageous status in the society affects their education. The analysis shows that more students belonging to SC,ST and OBC dropped out in all the districts except Dhenkanal where the situation has a slight edge in favour of the disadvantaged social groups. More than 54 percent of dropouts in Dhenkanal district are from "others" category only.

Table 3.3.3

Percentage Distribution of Dropouts (Castewise)

District	sc	ST	OBC	Others	Total
Bolangir	27.69	18.46	42.31	11.54	100,00
Dhenkanal	27.27	14.29	3.90	54.55	100,01
Gajapati	32.35	8 82	20.60	38 24	100 00
Kalahandi	36.71	10.14	50 63	2.53	100.01
Rayagada	34.62	34.62	20 51	10 27	100.01

Educational Status of Parents

Information pertaining to the educational status of parents of dropouts have been presented in Table 3.3.4.

Analysis of data furnished in the table reveals that:

On an average more than 50 percent of fathers of dropouts are illiterate and did not have schooling experience at all. Relatively, less percentage of fathers in Gajapati (35.3%) and Dhenkanal (38.9%) were illiterate. Therefore,

- the majority of dropouts are found to be first generation learners.
- In case, of mothers, the illiteracy rate is more than 80 percent in Gajapati, Katahandi and Rayagada whereas a little higher than it is 68 percent in Balangir and Dhenkanal
- A smaller percentage of dropouts have lathern who have education upto primary level. The percentages are highest in tagapate (17.77). The percentage of fathers of dropouts having secondary level education is found to be the highest (12.9%) in Rayagada.

Table 3.3.4

Percentage of Distribution of Dropouts on the Basis of Educational Lavel of Parants

Educational Lauret	Bala	ngır	Dhen	kanal	Gaja	pall	Kalal	iandi		ւս Գ ց ուն
Educational Level	Father	Molher	Falher	Mother	Falher	Molher	Father	Mother	Lathor	Mothor
Illiterate	62 67 69	89 68 46	28 38 89	52 67 53	12 35,29	30 88 24	41 51 90	66 B3 54	43 55 13	6 (BO 77
Lilerale	9 6.92	3 2.31	4 5 56	5 6 49	3 8.82	2 6.88	6 7 59	1 1 27	'4 1	1 /8
Primary	23 17 69	18 13 85	21 29 17	8 10 39	12 35 29	0 0.00	7 8 06	, i i i	0 10.76	(1
Secondary	17 13 08	4 3 08	3 4.17	0 0.00	1 2 94	0 0.00	4 5 06	() 0 00	10 12 H2	1 3 11/1
Higher Secondary	0 0.00	0 0 00	0 0.00	0 0,00	0 0 00	0 0.00	0 0.00	0 0.00	U 0 00	0 00
College	0 0 00	0 0 00	0 0,00	0 00	0 0.00	0 0.00	0 0 00	0 0 00	1 1 28	() 0 00
Do not know	19 14 62	16 12 31	21 22 22	12 15 58	6 17.65	2 5.88	21 26 58	10 12 66	13 16.67	7 8 9 7

Class Last Attended

Incidence of dropping out does not normally take place in class I. The magnitude of dropout accentuates with progression of classes. This is evident from Table 3.3.5.

Table 3.3.5

Sampled Dropouts by Class in which Last.

Enrolled (%)

District	Class III	Class IV	Class V
Balangir	25,3	30.8	43.9
Dhenkanal	24.5	34.7	40.8
Gajapati	23.3	37.7	39.0
Kalahandi	22.8	36.0	41.2
Rayagada	10.6	38.3	51.1

The trends in dropout perceptible from the Table are:

- In case of our districts (except Rayagada), the extent of dropout that takes place at class i level is about one-fourth (23.9%) of total dropouts.
- At the level of Class 3, on an average, one third of drout occurs. This pattern is almost similar across the districts.
- More than 40 percent of the dropouts are found to have left school at the level of grade 5. Thus, more and more number of children become dropouts from class 5 and onwards.

Repetition of Classes

Table 3.3.6 reveals the districtwise number of dropouts that have repeated different grades once, twice or thrice The analysis of the data presented in Table reveals the following trends:

Table 3.3.6

Number of Times Dropouts Repeated Classes

		Boys			Girls			lotal		
District	Class	Once	Twice	Thrice	Once	Twice	Thrice	Onco	Twice	Thure
Bolangır∙	1	6	1	0	8	3	0	14	4	t)
	11	8	1	0	12	1	Ü	20	ر	1)
	111	19	3	2	22	2	Ü	41	5	:1
	IV	15	1	2	12	1	0	27	2	2
	V	3	0	0	5	1	0	8	1	0
Dhenkanal •	ı	7	2	1	2	3	Ų	9	٠,	1
	11	16	13	1	5	1	O	21	2	1
	111	10	5	0	1	2	0	11	7	()
	IV	8	1	0	1	1	0	9	2	0
	٧	0	1	0	1	0	0	1	1	0
Gajapati		2	0	0	2	1	0	1	1	0
	II	4	0	1	2	1	0	11		*120
	III	6	1	0	6	0	0	12	1	(1
	١٧	1	1	0	3	0	0	4	1	0
	٧	0	1	0	0	1	0	0	2	()
Kalahandi	ı	6	1	0	8	1	0	14	2	0
	Н	11	2	0	2	1	0	13	3	0
	111	7	3	0	3	2	0	10	5	0
	IV	3	1	0	3	2	0	G	3	0
	V	0	1	0	2	1	0	2	2	O
Rayagada	ı	0	1	0	0	1	0	0	2	0
	11	1	1	0	Ò	0	0	3	1	()
	III	6	0	0	6	0	0		0	()
	IV	0	0	0	4	1	1	4	1	1
	V	0	0	0	1	C	0	1	0	Ü

- Higher percentages of dropouts are found to have repeated one or the other grade once. This feature is commonly shared by all the districts. The percentage es for Balangir, Dhenkanal, Gajapati, Kalahandi and Rayagada being 84.0, 66.2, 76.5, 57.0 and 23. I respectively.
- Relatively less number dropouts have repeated a class twice and st ill less is the number who have repeated any grade thrice. Therefore, it could be concluded that repetition of any one grade only once has led the child to dropout from primary school. Hence, it is not detention on failure that is solely responsible for forcing the child to discontinute. This factor might be working in conjunction with other factors.
- More than 70 percent in Rayagada, 24 percent in Kalahandi and 10 percent of dropouts in Dhenkanal have not be detained at all. This points out the operation of other "in-school" and "out-school" factors—that have made children leave school before completing the five your cycle of primary education.
- Although the frequency of failure for once is highest cutting across al 1 the districts, genderwise variation is in favour of girls. In other words, less number of girls dropouts have failed once in Dhenkanal, Ga japati and Kalahandi. This leads one to explore the other plausible reasons for their dropping out.

Reasons for Discontinuing Studies

Dropouts were asked to give reasons for discontinuation of their studies. Interventions for doing away with or reducing the phenomenon of overall dropout to the intended level are to be planned on the basis of diagnosis of reasons. The dropouts cited many reasons responsible for their dropping out. Conclusions with regard to the

reasons the dropouts have cited are :

- The predominant reason for discontinuance of the studies of the dropouts is cited to be parental unwillingness. Of the five districts, more than 50 percent of dropouts cited parental unwillingness as the principal reason.
- The second important reasons which was commonly shared by the dropouts of all five districts. was that they found studies too difficult and therefore, they could not sustain their interest. As revealed from the field notes, one of the reasons as to why did they find studies difficult was that they being mostly first generation learners did have a congenial home support system. There, however, for not interested in studies.
 - Genderwise variation is perceptible with regard to the reason " to assist in household chores", More than one-fifth of girl dropouts but a negligible percent (3.0%) of boys cited this as a reason, this indicates the perpetuation of the gender stereotypes in sex roles which needs to be knocked down.
- The most important finding reflecting the changing socio-cultural values that emerged foreculty that not a single dropout cited marriage as a reason for stopping their education.
- Reasons such as "cannot afford textbooks", "school too far", and "health not keeping well" did not act as deterants to continuation of their studies.

Nutritional Status of Dropouts

A large section of dropouts reported getting their morning, afternoon and evening meals daily in all the districts. Inter-district variations were found to be very significant. However, availability food "sometimes"

Table 3.3.7

Nutritional Status of Dropouts

	Never	6.7	4 5.13	2 2 56
Rayagada	Sоте- times	19 24.36	17 21 79	10 12 82
	Always	53 67.95	57 73.08	66 84 62
	Never	1 27	2 2 53	0 00
Kalahandi	Sоте- tmes	25 31 65	8 10.13	23 29.11
	Always	53 67 09	69 87.34	56 70.89
	Never	000	2 94	000
Gajapatı	Sоme- times	5 14.71	7 20 54	3 8 82
	Always	29 85 29	26 76 47	31 91.18
	Never	17 22 08	2 2 60	5 6 49
Ohenkanal	Some- times	20 25 97	21 27.27	21 27.27
	Always	40 51 95	54 70.13	51 66 23
	Never	6 4 62	0.00	000
Balangir	Some- times	41 31,54	41	36 27.69
	Always times	83 63 85	89 68 46	94 29 55
		Morning	Afternoon	Evening

Educational Aspirations of Dropouts

Districts	Occupation	Воув	Girls	fotal
	0 Don't want to study	33 82	27.42	10 7 1
	1. Don't Know	10.29	0.46	0.46
	2 5th Class	4.41	4 84	4 ti.¹
Balangır	3. 8th Class	4 41	17.74	10.77
	4. 10th Class	22.06	30.65	26.15
	5. 12th Class	7.35	8 06	7 60
	6 Graduation	16.18	3 23	10.00
	7. Engineering / Medical	1 47	161	1.54
	0. Don't want to study	50 00	18 %	n 90
	1 Don't Know	6.0	/41	6 49
	2. 5th Class	2.00	14 81	6.49
	3 8th Class	6.00	10,52	10 31
Dhenkanal	4. 10th Class	24.00	33 33	27.27
	5. 12th Class	4.00	3 70	3.90
	6 Graduation	8,00	3.70	6 49
	7. Engineering / Medical	0,00	0.00	0.00
	0. Don't want to study	50.00	35.71	44 17
	1. Don't Know	5,00	14.29	8 82
	2. 5th Class	0.00	14.29	5 08
Gajapati	3. 8th Class	10,00	7.11	8 62
Gajapati	4. 10th Class	35.00	21.43	29.4
	5. 12th Class	0.00	7.14	2 04
	6. Graduation	0.00	0.00	0 00
٠	7 Engineering / Medical	0.00	0.00	0 00

Table 3.3.8 (Contd.)
Educational Aspirations of Dropouts

Districts	Occupation	Boys	Girls	Total
	0. Don't want to study	36 17	50 00	41 77
•	1. Don't Know	14.89	21,88	17-72
	2. 5th Class	4 26	9 30	() ()')
Kalahandi	3. 8th Class	4.26	6 25	5.00
	4, 10th Class	34.04	6.25	22 78
	5. 12th Class	2.13	3.12	2 53
	6. Graduation	4 26	0 00	2.53
	7. Engineering / Medical	0 00	3 12	1 27
	0 Don't want to study	50,00	41 30	44 137
	1 Don't Know	18.75	8 70	12 82
	2 5th Class	3,12	10 87	7 69
Rayagada	3. 8th Class	3.12	8 70	G.41
	4. 10th Class	15 62	19.57	17 95
	5. 12th Class	6 25	4.35	5,13
	6. Graduation	3,12	6.52	5 13
	7. Engineering / Medical	0.00	0.00	0 00

and "never" taken together really amounts to non-available lity food to the dropouts. More than one-fourth of dropouts reported either "somewheres" of/ and never (Table 1.1./). A limitation of this type of data is that more available by of food does not ensure the supply f essential nutrients.

Educational Aspirations of Dropouts

UEE strategies intend to bring the dropouts elther to the formal or non-formal system of education. Therefore, their educational aspirations have a direct implications for making suitable interventions. A large percentage of dropouts reported their unwillingness to study (Balanque 30.8%; Dhenkanal 39.0%; Gajapati 44.1%; Kalahandi :41.8% and Rayagada: 44.9%). About one-tenth of droputs expressed their willingness to study only upto class VIII. The desire to study upto matriculation (10 year of school education) was lodged by more than 25 percent of disposition in Balangir (26.1%), Dhenkanal (27.3%,), Gajapati (***1.4%) Kalahandi (22.8%) and lowest in Rayagada (18.0). Thus, a low aspiration level of dropouts emerges in all districts. The inherent reasons of this needs to be probed into in depth.

It is revealed that most of these children were engaged in agricultural labour, services in households and working in shops. The dropouts engaged in paid work are between 4.1 percent in Dhenkanal and 23.5 percent in Gajapati. Gender variations are minimal.

If the goal of UEE is to be achieved within the timeframe of AD 2000, the persisting problem of wastage and dropout is to be reduced to the minimum. This could be possible only through appropriate policy interventions based on a realistic assessment of the factors that have direct bearing on children dropping out. The findings arrived at through analysis in the present section are definite pointers for initating policy interventions.

Table 3.3.9
Percentage of Dropouts Doing Paid Work

District		Paid Work	
	Boys	Girls	Total
Balangir	12(17.6)	12(17.6)	18.5
Dhenkanal	3 (06.0)	1 (03.0)	0.5.1
Gajapati	6(30.0)	² (14.ŏ)	23.5 -*
Kalahandi	9 (19.2)	1 (06.0)	12.7
Rayagada	6 (18.8)	6(13.0)	15.4

Achievement in Literacy

A short test on literacy and numeracy with contents equivalent of class 2 standard carrying eight Items in each section was used to assess the achievement level of the dropouts. The scores on literacy were split separe tely on gender, location, and caste basis and then were subjected to analysis.

reveals no definite relationship (Table 3.3.10). The gender differences are not significant in any district and neither group demonstrates anysort of dominance. The highest mean for either boys or girls is recorded in Dhenkanl and the lowest in Balangir.

Table 3.3.10
Achievement of Dropouts in Literacy (Genderwise)

Districts	Boys		Gi	rls	Total	
Districts	Mean	SD	Mean	SD	Mean	((()
Balangır	1 50	2 59	1.53	2.41	1.37	24.17
Dhenkanal	4 48	1 97	4 15	1 96	4 36	1 ()()
Gajapati	3.05	2 89	2.29	2.84	2 51	2 83
Kalahandi	3.21	2.69	3 25	2.94	2,74	2 80
Rayagada	2.06	2.58	2 05	2.74	2.06	2 65

Rural-urban devide in the performance of dropouts (Table 3.3.11) demonstrates a mixed trend. In Dhenkanal and Gajapati districts dropouts in the urban areas have higher means over who are in rural areas. Particularly in Gajapati the performance between the two groups is significant. On the other hand, the students in rural

having higher means over those in urban schools in 1.16 the remaining three districts. The difference between Llie two groups in Kalahandi district is significant showing a better average by the dropouts from rural schools.

Table 3.3.11 Achievement of Dropouts in Literacy (Genderwise)

Districts	R	ural	U	Urban		
	Mean	SD	Mean	SD		
Balangir	1 55	2.51	1.11	2.31		
Dhenkanal	4 36	1 98	4.50	0 71		
Gajapati	2 03	2 46	6 80	0.84		
Kalahandı	3 27	2 79	1 50	2 12		
Rayagada	2 13	2 69	1 56	2 45		

Castewise mean and standard deviation of literacy scores are presented in Table (3.3.12). From this table it is observed that other caste group has higher mean score in literacy in Dhenkanal and Kalahandi districts. The SC group is dominant in Balangir and Rayagada district and OBC group in Gajapati district. Most of the intergroup differences were found to be significant in all districts.

Achievement in Numeracy

The genderwise achievement in numeracy of dropouts in different districts are presented in the 3.3.13. Boys are seen to have higher average scores that that of girls in all the district except in Gajapati where the girls have slightly better average. in Dhenkanal, in no other difference is observed be significant.

Table 3.3.12
Achievement of Dropouts In Literacy (Castewise)

Districts	S	С	S	ST		ОВС		U/S
	Mean	SD	Mean	SD	Mean	S()	Мени	<i>h</i> [1
Balangır	2 05	2.69	0 37	1 47	1 84	5 60	1) 117	1 'Ut
Dhenkanal	4 38	1 65	4 27	1 42	267	3 79	450	2.09
Gajapati	2.27	2 87	1 00	1 73	5 29	3 04	p 16	2:30
Kalahandı	3,49	3 07	1 37	1 50	3 25	2 62	0.50	2.12
Rayagada	2 85	2 66	1.48	2 39	1 62	2 75	(1 (1))	эн

Table 3.3.13

Achievement of Dropouts in Numeracy (Locationwise)

Districts	Ru	ıral	Urt	pan	Total		
Districts	Mean	SD	Mean	SD	Mean	so	
Balangir	0 64	1,43	0.00	0.00	0.59	1.39	
Dhenkanal	3 36	2 00	4 00	1 41	3.37	1.98	
Gajapali	1 35	1.82	6 80	0 84	2 14	2.59	
Kalahandi	2 48	2 29	1.00	0.00	2.44	2 21	
Rayagada	1 71	1 74	2 11	2.09	1 76	1 /7	

^{*} Difference Significant

Table 3.3.14
Achievement of Dropouts in Numeracy (Genderwise)

Districts	Boys		G	rls	Total		
	Mean	\$D	Mean	SD	Mean	SD	
Balangir	0.78	1 55	0 39	1 16	0.59	1 39	
Dhenkanal	3 68	1 99	2 81	1.88	3.37	1 98	
Gajapati	2 25	2 57	2 00	2 71	2.14	2 59	
Kalahandi	2 72	2 32	2 03	2 01	2 44	2 21	
Rayagada	1 88	1 88	1 67	1.71	1.76	1 77	

^{*} Different Significant

Locationwise distribution of mean scores on numeracy (Table 3.3.14) demonstrates significant intergroup differences in Gajapati where dropouts from urban schools have mean score of 6.80 out of maximum more of 8. In Balangir no correct response was available from dropouts in urban areas and in Kalahandi only one answere one item correctly.

Table 3.3.15

Achievement of Dropouts in Numeracy (Castewise)

Districts	s	SC		ST		OBC		Othors	
	Mean	SD	Mean	SD	Mean	SD	Moan	SD	
Balangır	0,86	1 85	0 25	0 73	0.62	1.35	0.40	0 91	
Dhenkanal	3.76	2 09	3.27	0.90	3,00	2.64	3 24	2 13	
Gajapati	2 00	1 95	0 00	0 00	4 29	3 50	1 62	2 26	
Kalahandi	2 21	2.23	3.25	2 19	2.45	2,27	2 50	0 /1	
Rayagada	1 41	1 55	1 48	1 72	231	1.74	2 75	2 37	

The castewise distribution of the means and standard deviations of numeracy scores reveal OBC group in Gajapati district having highest average score of 4.29. [her filler the groups in a district except Gajapati have very small variations in mean score, the question of interpretable differences is not important point of investigation.

One the whole, except a few urban and advantaged groups in Gajapati distirct, the achievement of the dropoula did not reveal much and further statistical analysts was felt to be of little use.

Section IV

Achievement of Class 2 Students

The first year of schooling makes a world difference to the young learners and sets the tune for their future performance. The assessement of acquisition basic competencies after the first year of schooling besides providing feedback for the immediate remediation learning, act as marker for the future. \mathfrak{I}_{11} the contest of planning for the primary school education, therefore, assessment of achievement of the students at this is carried out to act as the foundation of the pattern of learning and achievement during later period of primary schooling.

With this perspective in view, a test of literacy and numeracy was administered orally on a sample of 2125 of class 2 students drawn from 194 schools of the five project districts. The scores are analysed in terms of gender, location and caste and the levels of achievement are discussed in this section.

Achievement

The achievement of pupils after the completion of one year of schooling, considered to be the predictor of future performance in primary schools was therefore assessed through an oral test (NCERT class 2 Achievement Test) developed on the competencies of literacy and numeracy included at class I level.

Language

The test had two sections i.e. Letter Reading carrying 10 marks and Word Reading carrying 10 marks. In Letter Reading, the student has to read nine simple letters i.e.without any 'matra' and one comlex letter. In Word Reading the student had to read four types of words with various degrees of use of matra' (Table 1.7).

The mean of the achievement scores in language of class 2 students in the districts presented in Table 3.4.1 out of the total score of 20, the average performance of the class 2 students in Gajapati district is highest (14.50) with the least variance among the districts. Lowest of the mean is observed in Kalahandi district (8.91) with largest variance among the samples.

Table 3.4.1

Mean Achievement of Class 2 Students in Language

Districts	N	Mean	SD	- 11-
Balangir	431	10.07	3.72	er an an Masser
Dhenkanal	523	13.77	3.53	
Gajapati	332	14.50	3.33	
Kalahandi	398	8.91	4.16	
Rayagada	441	13.43	1.75	

The scores on the two components of the language test i.o., on Letter Reading and Word Reading split on gender basis (Table 3.4.2) demonstrates overall superior performance on Letter Reading irrespective of gender difference. The gender difference on both the components of the test is not significant for any district except in Balangia district.

Table 3.4.3 shows mean and standard deviation of scores on Letter Reading and Word Reading of pupils in the rural and unban schools. The mean scores on both components are higher for pupils reading in urban schools, urban pupils demonstrating significantly better performance in all the districts. Students of urban schools of Dhenkanal have the highest average in both the components with least variance while those in the rural schools of Katabandi bave the lowest average with maximum variance among the ten groups.

Table 3.4.2

Mean Achievement of Class - 2 Students in Language (Genderwise)

A =	Districts	Воу	S	Gir	ls	To	tal	
Area	Districts	Mean	SD	Mean	SD	Mean	SD	
	Balangir	5.73	3.53	4.95	3 56	5.36	:) 56	*
Letter	Dhenkanal	7.47	3 04	7 12	3.38	7.32	:3.20	
Reading	Gajapali	7 57	2.97	7.80	3.14	7 65	3.03	
	Kalahandı	5. 05	4 04	5 33	3.98	5 16	4.01	
	Rayagada	6.84	3 53	6 52	4.01	6.72	371	
	Balangır	5.14	3.93	4.21	3.83	4.71	3 91	,
	Dhenkanal	6.45	3.83	6 32	3.92	6 45	3 83	
Word Reading	Gajapatı	6 73	3.56	7 05	3.76	6 85	3 63	
	Kalahandi	3.79	4.26	3.69	4,18	3.75	4.22	
	Rayagada	6 28	3.91	5.99	4.26	6.17	4 04	

^{*} Difference significant

Table 3.4,3
Achievement of Class-2 Students in Language (Locationwise)

A		R	ural	Url	oan	
Area	Districts Balangir Dhenkanal Gajapali Kalahandi Rayagada Balangir Dhenkanal Gajapati	Mean	SD	Mean	SD	
	Balangır	5.01	3.45	7 15	3 64	*
	Dhenkanal	7.09	3.27	9.25	1 40	*
Letter Reading	Gajapali	7.40	3 11	9 ()2	211	*
	Kalahandi	5 02	3.96	6.76	4 211	*
	Rayagada	6 53	3.74	7.97	3 34	*
	Balangır	4.38	3.75	6 33	4.27	*
	Dhenkanal	6.12	3.86	9.16	2.10	*
Word Reading	Gajapati	6.50	3.72	8 73	2,37	*
	Kalahandı	3.63	4.20	5.10	4.41	*
	Rayagada	5.96	4,02	6.78	3.94	*

^{*} Difference significant

Table 3.4.4

Achievement of Class-2 Students in Language (Castewise)

	Datas	SC	/ST	Oth	ners	
Area	Districts	Mean	SD	Mean	SD	
	Balangır	5 18	3,44	5.48	3.64	
	Dhenkanal	6.36	3.59	7.60	3 00]
Letter Reading	Gajapali	6.81	3.34	8.18	2.68	
	Kalahandi	4.64	4.04	6.04	3 80	
	Rayagada	6.31	3.72	7.21	3,65	
	Balangir	4,77	3.71	4 67	4 03	
	Dhenkanal	5.37	4 12	6 77	3 68	
Word Reading	Gajapali	5 82	4 05	7.49	3 18	
	Kalahandı	3 14	4,05	4.78	4 31	
	Rayagada	5 67	4 05	6.78	3 94	

^{*} Different Significant

The performance of learners may be affected because of their socio-economic status. Children belonging to SC and ST groups, at present are considered socially disadvantaged. Table 3.4.4 depicts the mean scores and standard deviations of SC/ST and general caste (others) groups for each district to know the status and that the inter-group comparison.

SC/ST children having highest mean scores in letter Reading and Word Reading are in Gajapati district Kalahandi district. Ιt is the lowest in evident in all the districts the table that barring Balangir, differences SC/ST "Other" between and the intergroup groups are significant. That is the children belonging to SC and ST groups are performing at a significantly lower level than their counterparts in the general caste category.

Levels of Achievement

Quality of learning depends on the level of learner's performance. Traditional practice of examining at the end of an year with arbitrarily chosen items and certifying on a performance level as low as 30 percent of the total marks cannot be considered by any logic , of ensuring quality. Therefore, while introducing quality generating teaching-learning practices like MLL through DPEP, the Baseline Assessment Study must address Itself to provide a picture of the present level of attainment.

The analysis of achievement scores have been done under five levels of attainment. These are :

- i) Zero level percentage of students securing zero in the test.
- ii) Not Achieving MLL- Percentage of students securing more than zero and less than 40 percent.
- iii) Achieveing MLL- Percentage of students securing between 40-60 percent.

- iv) Approaching Mastery Percentage of students securing between 61-79 percent.
- v) Mastery Level: Percentage of students securing.

 Genderwise Levels of Language Achievement

Percentage of class 2 students of the five project districts have been arranged genderwise basing upon their performance on the two components of literacy test i.c., Letter Reading and Word Reading (Table 3.4.5). The of students in the lower range of the achievement (i.e., securing below 40 percent) is from 21.61 percent Dhenkanal district to 48.49 percent in Kalahandi district. 19.46 percent of boys in Dhenkanal district constitute the smallest group of low achievers among all the groups. Similar trend is also perceptible in the of Word Reading. Gender difference in students not achieving MLL is not uniform among the districts. In both the components, percent of boys exceeding girls observed in Gajapati and Rayagada districts whereas the reverse is the position in Balangir and Kalahandi. Dhenkanal percentage of non-achieving Girls is more that of non-achieving boys in Letter Reading while the opposite is the case for Word Reading (Fig. 3.4.1 & 3.4.2).

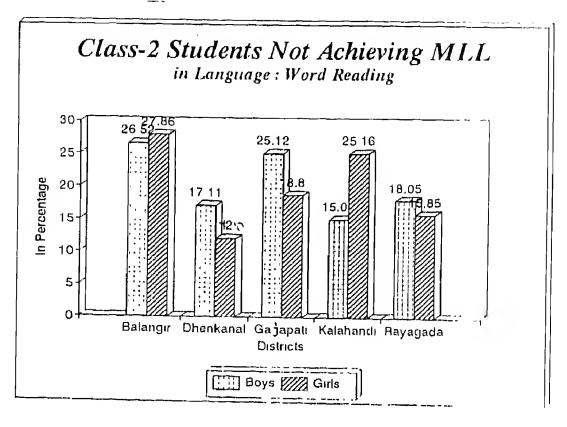
Percentage of students achieving mastery in Word Meaning (i.e., securing 80 percent or more) ranges from 35.03 percent in Balangir to 65.66 percent in Gajapati. Similar is the trend in Word Reading with a range from 32.71 percent to 57.23 percent.

Locationwise Levels of Language Achievement

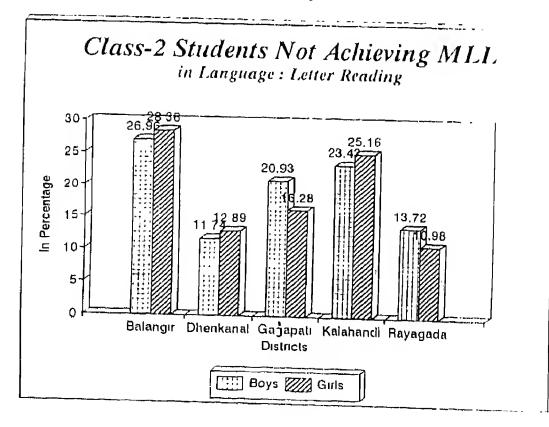
The rural-urban differentiation in the students attaining different levels o£ of mastery can observable in the Table 3.4.6. The percentage of rural students not achieving MLL is more than their urban counterthe districts. parts in all The concentration oſ achievers in both the components of the language is maximum in Balangir district in both the gender groups.

Table 3.4.5 Achievement of Class - 2 Students in Language (Genderwise)

Balangir	Area Levels Boys Girls Total	Zero 16.09 21.39 18.50	Not Achieving 29.96 28.36 27.61	Letter Achieving 8.70 8.96 8.82 Reading ML		Achieving 39,57 29.85 35.03 Mastery	Zero 23.91 31.84 27.61	Not Achieving 26.52 27.86 27.15	Word Actieving 4.78 7.46 6.03		F 68
	Boys	7.72	11.74	5 88	8.05	67 45	16.78	17.11	88,4	8.05	100 GE
Dhenkanal	Girls	11 56	12.89	3 59	10 22	61 78	20.89	12.00	90 8	5.33	1 52 7B
	Total	937	12.24	4.40	8 33	65.01	18.55	14.91	25.	6.88); };
	Boys	3.72	20 93	7.44	4 65	63.26	10.23	25.52	7,7	(£) (£)	17 E
Gajapati	Girls	5.98	16.24	1.71	5 98	20 02	11.11	18.80	256	3.42	 ;;;
	Total	4 52	19 28	5,42	5.12	65.66	10.54	22.89	0. Pa	in Es	81 1.,
፯	Boys	25.94	23 43	5.86	4 60	40 17	47.7	15.06	75	8 0	ik M
Kalanandı	Girls	22 01	25 16	6 92	გ გ	40 88	41.51	25.16	\$B	XII	出出
	Total	24.37	24 12	6.28	4.47	40.45	45.23	19.10	: :3: :3:	i i i i	, М
	Boys	14 08	13.72	5 42	3.66	58.12	18.05	13.05	SC no	អ្ន	14
Rayagada	Girls	21 34	10.98	4.97	427	56.15	24.39	15. 18.	396	88	Ы й.
_	Total	16.78	12 70	4.99	7.03	58.50	20.41	17.23	ω 8	70, 77	14 á



41. 3.4.2



Pty. 3.4.1

Table 3.4.6

Achievement of Class - 2 Students in Language (Location wise)

		Balan	gır	()henl	kanal	Cinjnp	mil	Kalat	nandi	η,	013/1
Area	Levels	Rural	Urban	Rural	Urban	Nural	Urban	Hural	Uibani	Hural	Hitem
	Zero	19 83	12 33	10 49	Ų 00	5 36	0.00	24 311	과 간	t, A	10 }
	Not Achieving MLL	30 17	15 07	13 28	3.57	21 43	7 69	2!: 4!!	9 ()()	}(}	11.1.
Letter Reading	Achieving MLL	9 50	5,48	471	1 79	6 43	0 00	11.85	() () ()	5.51	1 (10)
	Approahing Mastery	10 89	5,48	9 42	5 36	5 36	3 85	4 66	f ₁ OG	7.36	3 44
	Achieving Mastery	29 61	61 64	62 10	89 29	61 43	88 46	311 6 1	60.61	15.51	/677
	Zero	28 77	21.92	20,34	3 5,7	11 79	3 85	46 59	27.27	21 %	13 '81
	No Achieving MLL	29 89	13 70	16 49	1 79	26.43	3 85	18 80	27.27	1N 1	11 67
Word Reading	Achieving MLL	6 70	2.74	6,42	1.79	3 93	1 92	3 54	9 09	7.87	0 uu
	Approahing Mastery	6 98	4 11	7 71	0.00	538	7 60	2 10	0.00	472	3 33
	Achieving Mastery	27 65	57,53	49.04	92.86	52.50	84.69	28 88	40 42	4/7/	71 67

.

Percentage of students in rural schools exceeding those attainment both the components. In in urban school in of kastery the picture is predictably reverse ın the percentage of students urban schools attaining mastery is higher than their rural counterparts. The ranges of percentage of urban students attaining mastery in both the comoponents are quite high : in Letter Reading from 60.61% (Kalahandi) to 89.29% (Dhenkanal), in Word Reading from 40.42% (Kalahandi) to 92.86% (Dhenkanal). ranges for the rural students are quite low. It is from 29.61% (Balangir) to 62.10% (Dhenkanal) for Letter 27.65% (Balangir) to 52.50% (Gajapati) Reading and for Word Reading.

Castwise Levels of Language Achievement

The percentage distribution of SC and ST taken together and other castes is given in Table J.4./. Like rural-urban comparison of non-achieving MLL and achieving mastery level students, the castewise comparison between SC & ST and others present similar trend of difference. The percentages of students securing 40% of marks or less in SC/ST category are less than those in the general caste group. And the percentage of general caste students are more than that for SC/ST in their respective districts.

Attainment in Numeracy

The mean achievement and standard deviation of the scores in numeracy part of the class 2 achievement test for each district is presented in Table 3.4.8.

The class 2 students of Dhenkanal district have the highest average score of 9.45 and those of Kalahandi district had the mean score of 5.93 in numeracy test which is minimum among the five districts. While the students population of Balangir seem to be the most homogeneous group (SD 3.96), those in Kalahandi are more varied (5.04) so far as the performance on numeracy test is concerned.

Table 3.4.7

Achievement of Class - 2 Students in Language (Caste wise)

		Balar	ngir	Dhenl	kanal	Gajap	ali	Kalal	handi	Hay	njada
Area	l evels	SC/ST	Others	SC/S1	Others	SC/ST	Others	SC/S1	Others	 '# 31 	Othors
	Zero	18 67	18 49	15 57	7 48	6 25	3 43	29 48	15 65	17 lH	(5 50)
	Not Achieving MLL	28 31	27 17	20 49	9 73	27 34	14 22	24 70	23 10		8 1511
Leller Reading	Achieving MLL	10 24	7 92	3 28	4 74	5 47	5,39	5 18	0.10	4 81	4 (1)
	Approahing Mastery	13 25	7 92	4 92	10 22	4.69	5 39	4 78	470	1 1 1	6 (10)
	Achieving Mastery	29 52	38 49	55 74	67 83	56 26	/1 1/7	35 86	48 10	1 ₁ 1	66 00
	Zero	24 10	29 81	27 87	15 71	19 53	4.90	52 59	P of	,d 99	[]] 5[0
,	No Achieving MLL	31 33	24 53	17 21	14 21	23 44	22 55	17 13	jip ar.	2011	
Word Reading	Achieving MLL	4 82	6 79	6 56	5 74	3.12	3,92	3 59	340	071	41:0
	Approahing Mastery	7.83	5 66	9.02	6 23	6 26	5 39	1 59	2 72	5 40	8 60
	Achieving Mastery	31 93	33 21	39.34	58.10	47.66	63 24	25,10	30 78	4198	149 50

Table 3.4.8
Achievement of Class-2 students in Numeracy

Districts	No of Students	Mean	SD
Balangır	431	6 91	3 96
Dhenkanal	523	9 45	4 18
Gajapati	332	9 23	4 62
Kalahandi	398	5 93	5 04
Rayagada	441	8.21	4 90

Comparison of attainment

The means and the standard deviation of the score on numerary are presented for comparison on the basis of gender (3,4,9), location (3.4.10) and Caste (3.4.11).

In genderwise distribution of means and standard deviations as evidenced in Table 3.4.9, it is seen that the mean of scores on numeracy of boys are more than that for girls. But only one difference in addition and substraction component of the numeracy test is significant in Balangir district only. In no other districts the gender difference is conspicuously significant.

Table 3.4.9

Achievement of Class - 2 Students in Numeracy (Genderwise)

Ama	Distrícts	Во	oys	Gır	ls	Tot	al	
Allia	Chothela	Mean	SD	Mean	SD	Mean	SD	
	Balangir	3.64	1 68	3 29	1 76	3 48	1.73	†
	Dhenkanal	4 65	1 54	4 45	1 75	4 56	1 63	
Number Recog- nition	Gajapatı	4 27	1 85	4 12	1 90	4 22	1 87	
	Kalahandi	3 20	2 25	3 09	2 19	3 16	2 23	
	Rayagada	411	2 01	4 08	2 10	4 10	2 04	
	Balangir	3 87	2 83	2 97	2 75	3 42	2 8?	,
Addilion	Dhenkanal	5 09	2 93	4 61	3 00	4 88	2 97	
and Subtrac- tion	Gajapati	5.17	2 97	4 70	3.38	5 00	3 13	
	Kalahandi	2.77	3 27	2 75	3 14	2.76	3 22	
	Rayagada	4 29	3 16	3 82	3 35	4 12	3 23	

^{*} Alfferint significant

Table 3.4.10

Achievement of Class - 2 Students in Numeracy (Locationwise)

Area	Districts	A	ural	Url	pan
Arou		Mean	SD	Mean	SD
	Balangır	3 30	1 67	4 34	1 /4
	Dhenkanal	4 42	1 66	5 /3	0.67
Number Recog- nition	Gajapati	3 96	1 89	5 59	0 86
	Kalahandı	3 07	2 19	4 15	2 38
	Rayagada	3 92	2 05	4 07	2 09
	Balangır	3 31	2 70	3 98	3 34
Addition	Dhenkanal	4.66	2 97	6 78	2 20
and Subtrac- tion	Gajapalı	4 59	3 15	7.23	1.76
	Kalahandi	2 64	3,14	4 12	3.78
	Rayagada	3 94	3 18	5.18	1.63

^{*} Different significant

Table 3.4.11
Achievement of Class - 2 Students in Numeracy (Castewise)

Arua	Districts	S	C/ST	Oil	ners	Tot	al	
Miller	Districts	Mean	SD	Mean	SD	Mean	SD	
, and transmer	Balangir	3 33	1.70	3 57	1 74	3 48	1.73	
	()honkanal	4.18	1 77	4 68	1 57	4 56	1 63	
Mumber Berog Tillon	Gajapati	3 73	1 83	4 52	1 83	4 22	1 87	ય
	Kalahandi	2 98	2 17	3 46	2 29	3 16	2 22	
	Raynıjıida	3 84	211	4 40	1 91	4 09	2 04	
	Balangir	3.60	2 75	3 31	2 87	3 42	2 82	
Addition	Dhenkanal	4 32	3.60	5 06	2 92	4 88	2 97	
and Subtrac tion	Gajapati	4.07	3 29	5 59	2.88	5 00	3 13	>}
	Kalahandi	2.44	3.11	3.30	3.34	2 76	3 22	
A THE AMERICAN PARTIES	Rayagada	3.62	3 24	4 71	3 13	4 12	3 23	

[•] Difference significant

Table 3.4.12
Percentage of Class 2 Students Achieving Different Levels of Achievement in Mathematics (Genderwise)

	Total	12.24	20 18	0.00	15.19	52.38	25 85	26.08	0.00	5.44	40 63
Rayagada	Gırls	13.41	19.51	30	12 80	54.27	전 전 전 전 전 전 전 전 전 전 전 전 전 (((((((23.17	80	3.66	40 85
Ra	Boys	11.55	20 58	80	16 61	51.20		27.80	0 00	6 50	43 68
	Total	21 11	30.15	000	13 32	35 4 3	177	19 35	00.0	628	27.14
Kalahandi	Girls	21 3ċ	31.45	0 00	15.72	(S)	;; ;;	22.64	000	7 55	25.06
33	Boys	20 92	29 29	000	11.72	ເວ ເວ ເວ	;;	17.15	0.00	5 4	28.45
	Total	6 93	25 30	00 0	14 76	E 31	() () () () () () () () () ()	25 45	000	4 55	53 94
Gajapati	Girls	7 69	27.35	0.00	11 11	55.55	() ()	15.36	800	17	6. 13
	Boys	6 51	24 19	00.00	16 74	52.56	40	30 70	000	to ty	33 02
<u>8</u>	Total	363	20 84	00.0	16 83	55	; ;	26 00	00.0	88 88	51 82
Dhenkanal	Girls	4 89	24 00	000	13 78	8 5	1. 7.	30 67	900	5.78	48 89
	Boys	2 68	18.46	000	19 13	55.73	12.22	22.48	00.00	14 07	8
	Total	7.42	43.85	000	20.88	[:] \$2	1:00	39.68	0.00	0 28 82	1388
Balangir	Girls	9.95	47.76	000	17 91	24 39	56 83	42.79	0.0	7.46	20.90
	Boys	5.22	40 43	0.00	23 48	50.87	2; 2; 2; 2)	36.96	0.00	10.87	33.04
	Levels	Zero	Not Achieving MLL	Achieving MLL	Approaching Mastery	Achieving Mastery	Zem	Not Achieving MLL	Achieving	Approaching Mastery	Achieving Mastery
	Area		Number Recog- nition						Addition	Subtraction	

Table 3.4.13

Achievement of Class - 2 Students in Numeracy (Location wise)

('Quada	pwh:	Palan	gir	Dheni	kanal	Gajap	alı	Kalat	nandi	Rayagada	
Arra		(Rur i)	Urban	Rural	Urban	Rural	Urban	Hunal	Urban	Rural	Urban
	√O[n	AGI	1 37	4 07	0 00	8 21	0 00	21 10	21.21	13 39	5 00
	Pol Achieving MT	44.72	38 36	23 13	1 79	28 93	5 77	32 33	6 Q6	21 78	10 00
Hunter r op 4cs	echicaniş ldi l	000	0 00	0 00	() 00	0 00	0 00	0 00	0 00	0 00	0 00
	zągorodonej Martery	,4110	8 22	17 99	/ 14	16 07	7 69	13 70	9 01	17.06	3 33
	7 bleviog Mastery	22 AI	52 05	54 82	91 07	46 79	86 54	32 88	63 64	47 77	81 67
	(4)	72.91	21.40	14 78	1 79	19 29	1 92	48 22	36 36	26 77	20 00
	Actioning Elli	11/4		27.62	12 50	28 93	5 77	20 00	12 12	27 30	18 33
-	र किलाम सार	00)	0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00
' \(\bar{\pi} \)	the lay	11: 11	411	9.42	357	4 29	5 77	6 30	6 06	6 30	0 00
	हर जिल्लाम् 	\$1.02	43.04	48 18	92 14	47 50	86.54	25,48	45 45	39.63	61 67

Table 3.4.14

Achievement of Class - 2 Students in Numeracy (Caste wise)

		Balan	ıgir	Dhenk	Dhenkanal		alı	Kalahandi		Hayagada	
Area	Levels	SC/ST	Others	SC/ST	Others	SC/ST	Others	SC/ST	Others	SC/S1	Others
	Zero	7 23	7 55	6.56	2 74	9.38	5,39	21 91	19.73	15 35	H 50
	Not Achieving MLL	45 78	42 64	19.64	21 20	28.12	23 53	33 86	23 81	20 75	19 50
Number Recognition	Achieving MLL	0 00	0 00	0 00	0 00	0,00	0,00	0.00	0 00	0 00	0 00
	Approahing Mastery	24 10	18.87	27 87	13 47	21.88	10 29	12.75	14 29	16 60	13 50
	Achieving Mastery	29 52	38 49	55.74	67 83	56.25	71 57	35 86	48 30	52 28	66 00
	Zero	24 10	29 81	27 87	15.71	19.53	4 90	52 59	32 65	21 99	18 50
,	No Achieving MLL	31 33	24 53	17 21	14 21	23 44	22 55	17 13	22 45	22 41	11 00
Addition and Sub-	Achieving MLL	4 82	6 79	6 56	5.74	3.12	3,92	3 59	3 40	871	4 50
traction	Approahing Maslery	7 83	5,66	9 02	6.23	6.25	5 39	1.59	2 72	2.90	6 50
	Achieving Mastery	31.93	33 21	39 34	58.10	47.66	63,24	25 10	38,78	43 98	59 5 0

In the locationwise distribution of means (Table 3.4.10), the rural-urban divide is quite conspicuous. Not only the urban school students have higher mean secure in both the components of numeracy test i.e. Number Recognition and Addition and Subtraction but the rural-urban differences are significant in all districts except for Rayagada in the Number Recognition component.

The group means and standard deviations calculated for the two social groups i.e., SC/ST and other general presented in Table 3.4.11, reveals average performances of SC/ST students in numeracy is lower than the student belonging to general castes as observed in all the district.

But the significant difference in both Number (Group) than and Addition and Subtraction could only be onbecomed in Gajapati district.

Levels of Achievement

and girls showing of different levels of attainment deman strates two visible trends. First boys in every district out number girls in every district in approaching and achieving mastery whereas girls outnumber boys in securing zero and not achieving mastery in both the components of the test. Second, in both the components of numerary, no student was in the level of achieving MLL in any of the districts. Highest percentage of students achieving mastery in numeracy were found in Dhenkanal closely followed by Gajapati.

A definite trend of rural-urban difference 111 the levels of achievement in numeracy could be observable in Table 3.4.13. On both the component, Number Recognition and Addition and Subtraction, the rural school out numbered their urban Counterparts at three levels, securing zero, not achieving MLL, and Approaching mastery, invariably in all the districts. At the same time the urban students outnumbered the rural students 4.11 achieving mastery in numeracy in all the districts. 11 is natural to expect that in a particular region when nonachievers are more in one of the dichotomous groups, the high achievers would be expected to be more in number in the other group. But in this case approaching mastery group. But in this case approaching mastery level learners follow the trend of low achievers rather than those in their higher level. But as observed in genderwise distribution there is no one in any of the five district in the achieving MLL group.

Unlike the previous two comparisons based on gender and location, caste-based distribution of percentage of students in attaining different levels of numeracy does not demonstrate any clear trend. Maximum percentage of SC/ST and others attaining mastery level are found in Gajapati district in both the components. In all the districts and in both the components the students belonging to other groups excel the respective SC/ST groups in acquiring mastery in numeracy. Again in number recognition, there is no student in the achieveing MLL group.

In summary, the learners after first year of schooling demonstrate early promise in acquiring mastery in literacy and numeracy in moderately large number. The intergroup differences are along predictable limes and are, therefore, pose no serious challenge to the planners.

Section V

Class 5 Students : Characterstics and Learning Achievement

students achievement of grade 5 learning The considered to reflect the effectiveness of primary schooling is the focus of analysis in this section. The major findings relating to the distribution pattern and background family the achievement school characteristics and discussed in terms of grade 5 have been presented and of gender, location and caste.

The distribution of the target group

The sample consisted of 1801 grade 5 students from the five project districts with genderwise distribution given in Table 3.5.1.

Table 3.5.1 Genderwise Distribution of Class - 5 Students

District	Boys	Girls	Total Number
Bolangır	70 00	30 00	362
Dhenkanal	53 88	46 12	529
Gajapati	69 49	30.51	236
Kalahandi	65.60	34.39	282
Rayagada	68.11	31.89	392

From the table it is evident that boys outnumber the girls in all the districts which is quite similar to the class 2 distribution. The sex-ratio in these regions are quite high and in Rayagad and Gajapati districts is favourable to females, the natural expectation that

nearly equal number of boys and girls would be coming into the primary school system is not being translated to reallty as a result the enrolment of girls is continuing to be quite low.

The students drawn as samples from rural and urban schools demonstrate (Table 3.5.2) a clear dominance of rural representation. More than 70 percent, and in cases of Kalahandi and Rayagada more than 80 percent, of the total student population in this grade hail from rural areas.

Table 3.5.2
Locationwise Distribution of Class - 5 Students

District	Rural	Urban	Total Number
Bolangir	74 59	25 41	362
Dhenkanal	71 46	28 54	529
Gajapali	76 27	23 73	236
Kalahandi	86 52	13.48	282
Rayagada	81 12	18 88	392

The castewise distribution of grade 5 students presented in Table 3.5.3 shows that other category students are prominent in Dhenkanal (79.58%) and Gajapati (63.56%). In all the districts except Dhenkanal, the ST groups were the smallest even though the tribals constitute substantial portion of the total population. The OBC and others combine constitutes more than 50 percent of the districts grade 5 students in all cases except Kalahandi. Similarly SC and ST combine is the majority only in Kalahandi district.

District	sc	ST	ОВС	Others	Total
Bolangir	18 23	14 92	38.67	28 18	100 00
Dhenkanal	10 21	7 75	2 46	79 58	100 00
Gajapati	13 14	9 32	13 98	63.56	100 00
Kalahandı	49 29	4 61	33,69	12 41	100 00
Rayagada	23.72	20 15	26 02	30 10	100 00
Total	21 27	11.60	21.27	45.86	100 00

Table 3.5.3
Castewise Distribution of Class - 5 Students

i rı modal age of class 5 students all districts is 10 years (Table 3.5.4) closely followed by the number students of 11 years of age. The number of older students aged 12 years ranges from 7.70 in Gajapati district to 18.60 present in Dhenkanal district. The reasons of such overage children in class 5 in these areas can be attributed to enrolment at late age repetition in any class.

Parental Education and Occupation

Studies have confirmed that parental education has direct bearing on the education of their children. The higher the educational level of the parents particularly that of the mother, the better is the level of achievement and longer is the continuance in the ladder of schooling system. But the picture that evolves from the Table 3.5.5 is quite distrubing. Illiterate parents constitute the single largest groups in all the districts with the percentage of illiterate mothers ranging from 35.7 in Dhenkanal district to 53.19 percent in Kalahandi district while that of the illiterate fathers is comparatively lower ranging

Table 3.5.4
Agewise Distribution of Class - 5 Students

Districts	Age (Years)	Boys	Gırls	Total
	9	6 70	2 80	5 50
B o	10	54 50	52 30	53 90
Ĩ	11	27.50	30.80	28.50
a n	12	9 40	13 10	10 50
g 9	13	1 20	0 90	1 10
i	14	2 80	0.00	0 60
r	15	0.00	0 00	0.00
D	9	7.40	5.70	6 60
h	10	44.20	40.60	42 50
u e	11	31.20	33.60	32 30
k	12	14 00	17.20	15 50
a .	13	2.10	2 90	2: 50
n a	14	0.70	0.00	0.40
1	15	0 40	0.00	0 20
	9	2.40	1.40	2 10
G a	10	63.40	68.10	64.80
j	11	25.60	25.00	25 40
a	12	7.30	4.20	6.40
þ a	13	1.20	1.40	1.30
t	14	0.00	0.00	0 00
1	15	0.00	0 00	0 00
K	9	12.40	4 20	9 90
a	10	42.70	48.50	44,70
i a	11	33,50	36,10	34.40
ĥ	12	7.00	6.20	6.70
a	13	2 70	4,10	3.20
n d	14	1.10	0,00	0.70
i	15	0.50	, 0.00	0.40
	9	8 60	7.20	8.20
R a	10	52.80	55.20	53 60
у	11	23.20	31 20	25.80
a	12	9.70	4,00	7.90
g a	13	4.50	1.60	3.60
ď	14	1.10	0.80	1.00
a	15	0.00	0,00	0.00

Table 3.5.5

Distribution of Class 5 Students according to Educational Status of Parents

	Bala	alangır	Dhenkanal	kanal	Gajapati	ıpatı	Kalahandi	tandı	Rayagada	gada
Occupation	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Not Applicable	9 12	8 29	6.81	4.52	4.24	3 39	3 90	5.32	5.36	3 06
Illiterate	15.75	41.99	12 10	35 70	18 22	45.76	26 24	53.19	32 65	48.47
Literate	4.14	2.49	0.57	0 95	6.36	5.54	2 84	3,19	1 79	0.26
Upto Class 5	20.17	16.85	13 25	30 81	19 49	13.99	19.15	9 93	13 01	16 58
High School	18.23	13.81	32 51	17.58	26 27	17.37	15,25	7.45	20 66	15.30
Higher Secondary	4 14	1.93	2 08	0.76	9 32	2 97	2 13	0 35	4 85	2.55
Degree	6 35	1 38	66 9	2 46	8.90	1 69	2.48	0.35	8 67	3 00
Don't know	22.10	13.26	18 70	7 18	7.20	9 32	28 01	20 21	13 01	10 71
	-									

from 12.10 percent in Dhenkanal to 32.65 percent in Rayagada, The number of parents with primary schooling experience do not show any gender base trend. While in some districts, fathers with educational status upto class 's outnumber mothers with equal qualifications, in other districts (Dhenkanal and Rayagada) the portion is just the reverse. The parents with higher education (i.e. degree and above) are shockingly few in number. One of the major reasons for low enrolment, high dropout rates and poor parental assiance in education of their children in this region might be attributed to the low level of parental education.

Father, in a patriarchal family, is the main earning member and thus exerts decisive influence on the education of children. Table 3.5.6 depicts the pattern of distribution of class 5 students according to father's occupation. It is evident from the table that agricultural activities is being persued by majority. Although the districts under study have large forest areas and a prominent portion of the population is comprised of scheduled trubes who traditionally are dependent upon the forest products, very small portion, as is evident from the table of the sample are continuing collection of forest products as a profession.

Preschool Experience

The number of students having preschool experience is quite meagre as evidenced from Table 3.5.7. Only 12 from among 362 i.e. 3.3 percent of Balangir sample which is maximum among the class 5 sample? It is not that the preschool facilities are not available, but such facilities in the form of Balwadis and Anganwadis under ICDS are not being utilized by the inhabitants. This is not due to the apathy rather due to lack of awareness and economic compulsions of parents. It is observed that the agencies organise such schemes and the members of the locality are not in same wavelength in providing valuable preschool experience.

Table 3.5.6

Percentage Distribution of Class - 5 Students According to Father's occupation

Occupation	Bolangır	Dhenkanal	Gajapati	Kalahandi	Hayaqada	
Household	0 28	0.76	0.42	() /1	() 411	
Domestic Servant	2 76	0.19	0 00	t) /1	1 (14)	
Street Vendor	1 66	1 52	() 42	() 3!,	1(1)	
Manual Unskilled Worker	6 06	2 08	1 27	1 /1;2	781	
Skilled Worker	6 63	4.92	4 24	2 13	7 91	
Clerical Worker	3 87	2.08	2 12	071	6 t/3	
Sell Employed	7.73	6.44	6.36	3 55	11.22	
Employer / Businessman	1 38	1.14	0.42	1 (16	1.53	
Manager/Sr Officer			071	3 11.2		
Others	19 06	21.72	46.61	26.95	28 83	
Farmer	28.73	47 16	21 19	53 90	17 09	
Broiler Firm	0.55	0.00	0 00	0 00	0.00	
Wage earning	13.81	5.87	8.47	6 38	12 50	
Forest Products Collection	0.55	0.19	2.54	0.35	1 53	
Not applicable or could not answer	4.42	4 36	4.66	1.06	2 ()4	

Table 3.5.7

Distribution of Class - 5 Students Having Undergone Preschool Education

District	Category of School	Nos
Bolangirl	ICDS/Nursery	12
Dhenkanai	ICDS/Nursery	3
Gajapati	tCDS/Nursery	5
Kalahandi	ICDS/Nursery	4
Rayagada	ICDS/Nursery	1

Nutritional Status

Whether the children have access to minimum nullitational provisions or not can be comprehended from the Table 3.5.8. Barring the morning and afternoon meals in Kalahandi, more than 90 percent students in each district are always getting the basic meals at three times a day. But the figures shown under "sometimes" and "never" exposes the extent of deprivation of minimum basic nutritional requirements.

Early nutritional deficiency hinders growth and directly affects the ability to learn. Providing mid-day meals to primary school children is an action in the right direction to ward off vital deficiencies at the early stage of life.

Academic Support from Family

Family shapes the early life of the learners and provides succor for schooling. The gender bias in support of boys is evident from the Table 3.5.9. While the maximum support is accorded in Gajapati district (85.59%) and

Table 3.5.8

Nutrition Status of Class 5 Students

		Always			Sometimes			Never	
Districts	Morning	Afternoon	Evening	Morning	Afternoon	Evening	Morning	Afternoon	Evening
Balangir	299 82 60	330 91.20	326 90.10	62 17 10	32 8 80	33 9 10	1 0 30	0.00	3.0.80
Dhenkanal	454 85.80	507 95 80	486 91.90	62 11.70	22 4.20	23 4 50	13 2 50	000	3 80
Gajapatı	228 96 60	232 98 30	233 98 70	8 3 40	1.30	2 0 80	000	1 0 40	0 40
Kalahandi	214 75 90	237 84.00	256 90 80	66 23 40	43 15.20	26 9.20	070	2 0.70	0.00
Rayagada	378 96.40	366 93.40	385 98.20	3.60	19 4 80	1.50	0.00	1.80	0.30

minimum in Kalahandi district (49.29%).

Table 3.5.9

Percentage of Class - 5 Students Getling Academic Support from Family

District	Boys	Gırls	Total
Bolangir	36 46	17 40	53 86
Dhenkanal	37 81	29 87	67 68
Gajapali	58 47	27 12	85 59
Kalahandi	29 08	20 21	49 29
Rayagada	28.57	21 94	50 51

Father or guardian is the main source of support (Table 3.5.10). In Balangir, Kalahandi and Rayagada the elder siblings provide the academic support more than their mothers possibly because of poor literacy rate among women and/or the women folks, particularly belonging to SC and ST are equally engaged like their male counterparts in earning their livelihood. There is no significant gender difference in the perception of the learners regarding the source of academic support in the family. In Dhenkanal and Rayagada more percentage of students derive support from the elder brothers and sisters, while in other district father is perceived as the main source of sustenance.

The girls, unlike in other underdeveloped regions do not perceive any discrimination as they get nearly equal support from family members. These findings, from such an underdeveloped region in the context of discrimination of girls child is hopefully a case in point for even more developed regions.

Table 3.5.10

Total of Class - 5 Students According to the Assistance Provided by the Family Members

District	Gender	Father/Guardian	Mother	Elder Brother/Sister	Others
Dalas	Boys	38 92	17.84	34,05	9 19
Balangır	Gırls	41 11	18 89	28.89	11 11
Dhenkanal	Boys	29 22	25.20	32.17	13 40
Dittimatign	Girls	24 64	30.00	31 43	13 93
Gajapati	Boys	41 58	32.67	21.78	3.96
Cajapati	Girls	40.00	36.55	19.31	4 14
Kalahangi	Boys	39.68	21.43	25.40	13 49
Kalananci	Gırls	41.94	22.58	30.11	5 38
Davasada	Boys	35.40	17.39	36.02	11,18
Rayagada	Gırls	32 31	20.00	34.62	13 08

Educational Aspirations

The learners' desire for higher education recorded in the Table 3.5.11 demonstrates their limited vision. Most of them choose between three levels i.e., secondary, higher secondary or degree. Significantly sizeable percentage (ranging from 29.82% to 37.3%) of students in Thenkanal, Gajapati and Kalahandi districts confine their educational aspirations to secondary stage, girls having slight edge over boys except in Kalahandi. In all the districts except Kalahandi the students target attaining graduation stage. A disheartening picture is that a sizeable percentage students, even after four years of primary

Table 3.5.11

Percentage of Class 5 Students According to the Educational Aspiration

		Balangır		Ω	Dhenkanal	<u></u>		Galapa!.		 ×	Kalahardi		Œ	Rayagada	g
Levei	Boys	Girls	Total	Boys	Girls	Total	Bevs	Girls	Total	Boys	Gırls	Total	Boys	Girls	Total
Don't want to Study	13 73	:402	13 81	7 02	7 79	7.37	11.59	13 89	12 29	11 35	1031	10 99	4 12	1 60	3 32
Don't Know	299	9 35	7.46	3.16	2.87	3.02	2 44	2.78	2 54	1514	15 46	15 25	15 36	6 40	12 50
5th Class	1.57	0 93	1 38	0 35	000	0.19	1 63	1 39	٠. ق ق	0.54	1 03	0 71	0.75	1 60	1 02
8th Class	3 92	8.41	5 25	3 86	13.93	8.51	4 27	8 33	(U)	5,41	7.22	6 03	4 87	4 80	4 85
10th Class	16.08	18.69	16 85	29.82	37.30	33.27	31.71	33 33	32 20	33 51	31 96	32 98	22.47	19 20	24.3
12th Class	22.75	20 56	22 10	15 09	11 89	13 61	11 59	417	9 32	15.14	18 56	16.31	14 98	21 60	17 09
Graduation	26.67	21.50	25.14	28.42	21 72	25	€£ ~_	25.00	24 58	16 22	12.37	14.89	26.72	27 20	25 51
Management Programme (Engineering/Medicals/ITI)	8 63	6.54	108	12.28	4.5	ω 7.7	12.20	¥- ¥-	4.4 86	2.70	3 09	2.84	12.73	17 60	14 29

schooling do not have any educational ambition or they feel confused. This sense of limited ambition or without any clear vision might have been induced by the lower socic-economic conditions and the lack of parental visions about them.

The arguments for the second factor i.e., the desire of the parents not to prosecute further studies draws support from the data presented in Table 3.5.12. Unwillingness of parents and the pressure to assist the household work are the two reasons advanced by the majority of the learners in class 5 who do not intend to study further. Quite a few consider learning to be difficult task other reasons do not evoke a definite pattern as ascertained from the students. Marriage is not considered as a plausible factor for not continuing further study.

Possession of Textbook

Textbooks are considered essential in school learning The classroom transactions, more in higher grades, textbook based. Therefore, possession of indicates parents care for children's learning. The rural-urban and boy-girl divisions in the possessions of number of books are presented in Table 3.5.13. only reveals the dichotonmy based on locality and gender. In all the cases urban school students lag behind rural counterparts. Similarly the boys in all the of possession of textbooks are head of girls districts.

Class 5 Students' Learning Achievement

Two tests: Language Achievement Test (LAT) and Mathematics Achievement Test (MAT) were administered over 1801 class 5 students of five districts to assess their learning level at the final year of primary schooling The profiles of the tests have been described in Tables 1.5 and 1.6. The scores were then presented in terms of gender, location and castewise. The levels of achievement both in language and mathematics were then determined to

Table 3.5.12

Reasons for Students not intending to study in Class - 5 (Percentage)

Reasons for not intending to study	Balangır	Dhenkanal	Gajapati	Kalahandı	Rayagada
Not applicable/ Cannot say	35 9 67	24 4 54	18 7 63	14 4.96	10 2 55
Parents donot want	5 1 38	6 1 13	4 1 69	5 1 77	1 C 26
To help in home work	4 1.10	2 0 38	3 1.27	8 2 84	0.51
Earning to Iwe	1 0 28	00 0	0 00	1 0 35	00 0
Training in home work	00 0	00 0	2 0.85	1 0.35	0.00
Study is very difficult & not charming	1 10	3 0 57	1 0.42	1 0.35	00 p
Cannot say for Books and Notes	1 G 28	3 0.57	0.00	0.00	0 C
Body not well	0.00	 0	0 42	0.35	C C)
Marriage	0 0	0 0	00 :	(°) () ()	0

Table 3.5.13

Percentage of Class-5 Students Having Text-Books
Localitywise & Genderwise

District	No. of Books	Aural	Urban	Boys	Girls
B 0	0	77.78	22.22	72 73	27 2H
a n	1 (0 3	88.50	11 50	66 37	33 63
g I	4 & above	62.00	3B 00	72 00	28 00
D h e	0	67,19	32.81	48 44	51 56
n k a	1 to 3	72.63	27.37	52.63	47.37
n a i	4 & above	72 88	27.12	56.54	43 46
G a	0	92 86	7.14	64 29	35.71
a p	1 to 3	96.23	3.77	69.81	30 19
a l	4 & above	60 63	39.37	71.65	28 35
K a I	0	89.90	10.10	62.63	37.37
a h a	1 lo 3	91.40	8.60	67.74	32 26
n d i	4 & above	77.78	22.22	66.67	33.33
R a y	0	91 41	8.59	83.59	16,41
a g	1 to 3	86.00	14.00	65 00	35.00
a d a	4 & above	70.12	29.88	57 93	42.07

assess the present learning status of the learners in these two context areas.

Achievement on Language Test

There are total 84 items carrying as many marks. The test has two sections, word meaning with 40 items and Reading comprehension with 44 items.

The mean achievement on LAT of class 5 students of the project districts are presented in Table 3.5.14.

Table 3.5.14

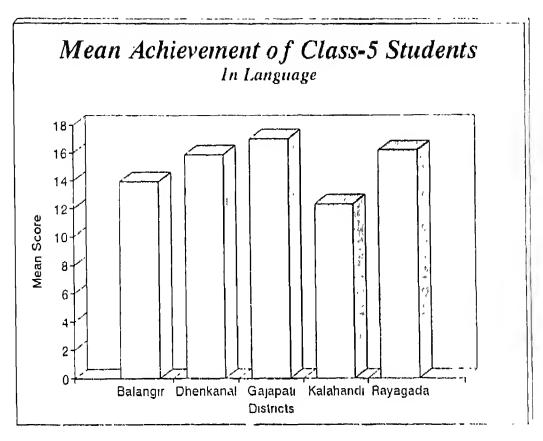
Mean Achievement of Class - 5 Students in Language

District	N	Mean	SD
Balangir	362	34.67	7.15
Dhenkanal	529	36.07	5.65
Gajapati	236	33.28	6.05
Kalahandı	282	34.75	5.91
Rayagada	392	36.88	6.17

The range of the mean scores is quite small with minimum of 33.28 in Gajapati district and maximum of 36.88 in Rayagada district.

Gender difference in Language Achievement

The total score of each respondent was then split into the two components i.e., on Word Meaning and Reading Comprehension were compared on gender, location and caste basis. The mean scores and standard deviation on Word Meaning and Reading Comprehension given in Table 3.5.15. The mean performance on the Word Meaning part is consistently higher than that on the Reading Comprehension in all the districts. The gender difference is found to



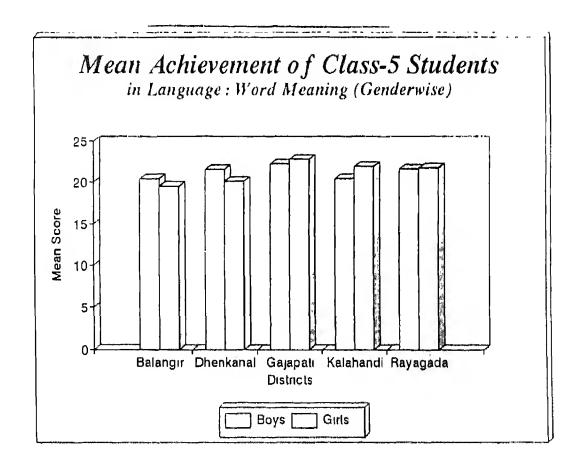


Table 3.5.15
Achievement of Class-5 Students in Language (Genderwise)

0	Diplomba	Воу	/s	Girl	s	Tol	al	
Area	Districts	Mean	ŞD	Mean	SD	Mean	SD	
	Balangır	20.43	7,07	19.51	7 83	20.1	7 30	
	Dhenkanal	21 50	6.64	20.08	6.41	20.84	G 57	
Word Meaning	Gajapati	22 18	5.44	22 80	4 90	19 98	5 85	¥
	Kalahandi	20 43	5.16	21 84	5 25	21 35	6 03	
	Rayagada	21 54	5 45	21.66	5 42	20 66	5 83	
	Balangır	14.62	7.01	14,24	7 05	14.51	7.02	
	Dhenkanal	15.09	6.06	14 50	5 58	15 23	4 23	
Reading Compre- hension	Gajapati	16 75	7 12	17,27	818	13 40	6 23	*
	Kalahandi	12.75	5,10	14.39	6.37	13.40	5.88	
	Rayagada	15,94	6,36	17.76	6.35	16 22	6 28	*

^{*} The gender differences are significant.

to be significant in the Word Meaning component only in Gajapati district whereas it was significant in Gajapati and Rayagada districts on the Reading Comprehension part. In all these three significant differences it is interesting to note that the girls are superior in performance to boys in the respective districts.

Locationwise distribution of scores

scores when divided on the two components based on rural-urban differentiation it can be obtained (Table 3.5.16) that students in urban schools rural higher scores than their counterparts in allsignificant locational differences districts. The performance in Word Meaning can be seen in cases Dhenkanal and Rayagada and that for the Reading Comprehension is observed in all the districts except in Kalahandi. While studying these high and wide significant rural-urban differences in language achievement, one need in mind that the rural sample size (1390) is much larger than the urban sample (411). Again the urban school children are more exposed to the outside world and have developed better test sensivity than their rural counterparts.

Castewise Distribution of Scores

The mean and standard deviations of the scores on Word Meaning and Reading Comprehension have been arranged on caste basis in the Table 3.5.17. The mean scores of other castes are found to be higher than other three groups in Balangir, Kalahandi, and Rayagada districts. The ST students were better than others in Dhenkanal(WM) Gajapati (in WM and RC).

The significant between - group differences can be observed on (a) on Word Meaning and (b) Reading Comprehensions.

- i) between SC , ST combine and OBC in Balangir and Rayagada districts;
- ii) between SC/ST and others in Kalahandi and Rayagada districts;

Table 3.5.16
Achievement of Class-5 Students in Language (Locationwise)

Area	Districts	Rur	al	Urba	ın	Tota	al	
		Mean	SD	Mean	SD	Mean	SD	
	Balangır	19 97	7.03	20.70	8 06	20.16	7 30	
	Dhenkanal	20 54	6.49	21.59	6.73	20.84	6,57	*
Word Meaning	Gajapati	22 38	5 51	22.32	4,48	19.98	5.85	
	Kalahandi	20,96	5.08	20.60	6 14	21.35	6 03	
	Rayagada	21.30	5.36	22.77	5 97	20 66	5 83	*
ļ	Balangir	14 04	6.53	15.90	8.18	14.51	7 02	東草
	Dhenkanal	14 24	5.31	16 29	6 81	15 23	4 23	-* *
Reading Compre hension	Gajapati	16.28	7 80	18.91	5.82	13.40	6,23	* *
	Kalahandi	13.16	5 46	14.28	6.51	13.40	5,88	-
	Rayagada	15.84	6 23	19.43	6 37	16.22	6 20	**

Table 3.5.17
Achievement of Class-5 Students in Language (Castewise)

			sc				ST			OBC			0	thers	8	wp
Area ·	Districts	Me	an	 S.I		Mea	ın	S.D	1	/lean	S.	D	Me	an	S !)
	Balangir		.7B	7:	31	20	72	6 28	5	20 23	6.	96	21	29	7 ! 	()(1
	Dhenkanal	1!	9 79	6	54	21.	.95	6.5	9	18.46	6	,33	2C 	94	6	517 . ~
Word	Gajapati	2	2 54	5	.93	23	.59	6.5	50	21 51	[43	2	2 34	4	91
Meaning	Kalahand		20 66		4 87	2	2 23	6	11	20 86	5	5 65	2	231		
	Rayagad		20.19	7	 5 19	2	1,05	4	.71	22.9	6	5.74		21 82	!	6 5B
	Balangi	+	12.8	-	5.74	-	14.81	6	5,41	14.1	7	7.0	7	15.89	9	7 78
	Dhenkar	-	14.5	50	6.22	+	14.65		4.61	15.3	30	4 60		14.86		5.94
Readin	ig Galapa		17	41	7 07	+	18.77	7	9.52	17	30	6 5	51	16 4	14	71
hensio	e.		12.	.90	5.4	3	10.9	2	3.61	13	,44	5,	73	15	48	614
	Rayag	., <u></u>	14	.80	5.8	10	14.8	32	5.2	2 18	3,86	6	.51	15	.60	5 9

Table 3.5.18
Class-5 Students Achievement in Language (Genderwise) of Different Levels

	Total	0 25	39.59	33.25	19.80	7.11	0.77	80.87	9 95	7 24	1 28
Rayagada	Girls	0.00	37 80	35,43	20.47	6.30	080	76.00	12.00	06 90	09 1
(C)	Boys	0 37	40.45	32 21	19 48	7 49	0 75	83.15	8 99	ib ib ib	۲ ۲
	Total	00 0	41 49	35 82	19.15	3 55	1.77	20 05	5 67	2, 13	(C)
Kalahandi	Girls	00 0	35 05	41 24	18.56	515	2.06	84 54	7.22	ن 15	(')
7	Boys	00 0	44 86	32.96	19 46	2.70	1.62	92.97	4.86	0.54	00 00
	Total	00.00	33.47	33.90	26 27	6.36	0.85	78 39	82.9	12.23	(D)
Gajapatı	Girls	0.00	29 17	30 56	36 11	417	1.39	76 39	4	15.25	Ιο (ν
	Boys	00 0	35 37	35 37	21.95	7.32	0.61	79 27	7 53	10 98	22.
	Tolai	2 65	41 97	29 11	19.09	7 18	2 84	87 15	6 05	3 40	Ö
Dhenkanal	Giris	1 64	52.05	22.95	17.21	6 15	1 64	88.52	9 29	83	00.0
	Boys	3 51	33 33	34 39	20 70	8 07	3 86	96 58	5 61	3 51	1 05
	Total	3 04	46 96	28 45	12 71	8 84	2 76	84 25	4 14	6 63	2 21
Balangır	Girls	4.67	46 73	24 30	14 02	10.28	1 87	84.11	4 90	8 41	0.93
	Boys	2.35	47.06	30 20	12.16	8.24	3.14	84.13	3.92	5.88	2.75
	Levels	Zero	Not Achieving MLL	Achieving MLL	Approaching Mastery	Achieving Mastery	Zero	Not Achieving MLL	Achieving MLL	Approaching Mastery	Achieving Mastery
	Area			Word		<u> </u>			Reading Compre-		

111) between OBC and others in Kalahandi district.

The superiority of ST students is an encouraging result in the context of such an underdeveloped region with large concentration of tribals.

Levels of Achievement in Language

For ensuring quality of education mere pass mark (30% of total mark) is not sufficient. Quality becomes evident when almost all the students perform competently at the mastry level. The levels of achievement used in this study are defined as:

- Zero Level: Percentage of students having a score of zero.
- Not Achieving MLL: Percentage of students scoring more than zero but less than 40 percent.
- 3. Achieving MLL: Percentage of students scoring between 40 to 60 percent.
- 4. Approaching Mastery: Percentage of students scoring between 61-79 percent.
- 5. Achieving Mastery: Percentage of students scoring 80 percent and above.

When the efforts are being made to enhance the quality of learning it becomes imperative to ascertain the existing levels of learning as per the above categorization of levels.

Genderwise Levels of Achievement in Language

The percentages of boys and girls in the sample achieving different levels are presented in Table 3.5.18. percentages of learners below MLL level in Word Meaning are prevailent equally among pova and girls all the districts ranging from 33.47 percent in Gajapati to 50 percent in Balangir district. This is still in Reading Comprehension with more than a staggering percentage 81 percent in all the districts with highest of 91.84 percent in Kalahandi district. The gender variation

١

Table 3.5.19
Class-5 Students Achlevement in Language (Locationwise) of Different level

rea	Levels	Bala	ngır	Dhenk	anal	Gaja	pali	Kalah	andı	Пауас	jada
		Rural	Urban	Rural	Urban	Rural	Urban	Bural	Urban	Hural	Urban
	⊼ero	2.59	4.34	2.91	1.98	0.00	0.00	0.00	0.00	0.31	0.00
	Not Achieving MLL	48.52	42.39	43.39	38.41	34.44	30.35	41.80	39.47	41.82	28.38
Vord Jeaning	Achieving MLL	30.00	23.91	29.36	28.48	33.33	35,71	35.65	36.84 	 32.}}	1/ d4
	Approaching Mastery	Ll.48	16.30	18,5]	20.53	25.55	28.57	19.67	15.70	19.50	21.62
	Achieving Mastery	, .41	15.64	5.83	10,60	0.60	5.36	2.87	7.89	15.47	1 '.10
	Zero	2.22	4,55	2.91	2.65	1.11	0.00	1.22	5`, 26	0.63	1,35
	No MLL	86.29	7გ/ნ	91.00	77.48	78.33	78.57	90.57	86.8	84.28	66.23
Reading Compre-	Achieving MLL	4.64	3.26	4.23	10.60	6.11	8.93	6.14	2.03	8.18	17.57
hension	Approahing Mastery	5.56	9.78	1,59	7.95	12.77	710.71	1.64	5.76	5.97	12.15
	Achieving Mastery	1.48	3.34	0.00	1.32	1.66	1,80	0.40	0.00	0,94	2.70

in these cases is marginal. As compared to it, the percentage of students achieving mastry in both the components low. Ιn Word Meaning the highest percentage of 10.28 of girl students of Balangir achieved mastery level with the lowest oſ 2.7 percent of boys in Kalahandi, the gender difference being not pronounced. In the Reading percentage acquiring Comprehension the mastery is quite meagre varying from zero percent to 2.78 percent without any perceptible gender difference.

Locationwise Levels of Language Achievement

In the rural-urban split of subjects in nearly all levels of achievement the rural school children out-number the urban counterparts even in achieving mastery (Table 3.5.19). The comparative large size of rural samples than the urban sample might have caused such disparity than the real difference per se.

Castewise Levels of Language Achievement

The trend of distribution in castewise split is distribution. different from the genderwise in both components the largest concentration 10 distribution is below the achieving MLL and the percentage of students achieving mastery is comparably There is no perceptible differentiation in the distribution on the basis of caste. While 16.67 percent other in Balangir has attained mastery, 14.63 percent of students of Dhenkanal and 12,90 percent of SC of Gajapati district marched the last level. In the Reading Comprehension the highest percentage is only 4-9 percent students of general caste acquired mastery.

Achievement in Mathematics

The Mathematics Achievement Test (MAT) 40 items each carrying one mark. The profile ο£ the gives the details of the content areas and item distributions. Out of the maximum of 40 marks the average marks secured by the class 5 students in the project (Table 3.5.21) is below 50 percent level, The of the mean scrores of 17.0 and lowest of 12.30 are observed in Gajapati and Kalahandi districts respectively. The scatter of scores is low in Kalahandi and even in rest of the districts.

Table 3.5.21

Mean Achievement of Class - 5 Students in Mathematics

District	N	Mean	รเว
Balangir	362	13 90	6,04
Dhenkanal	529	15 89	6,37
Gajapati	236	17 טט	6,45
Kalahandi	282	12.30	4 97
Rayagada	392	16 18	6 25

Gender Difference in Mathematics Achievement

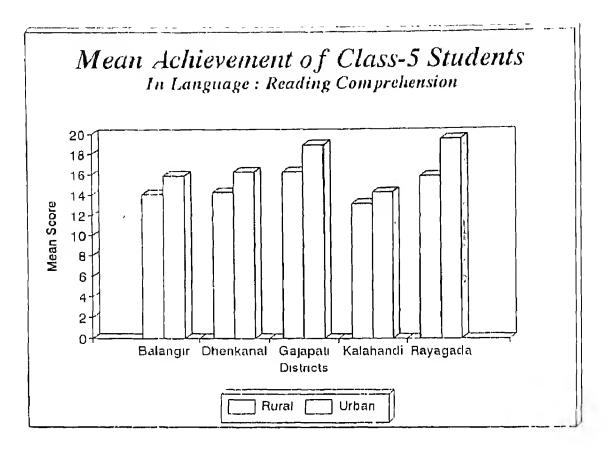
From the Table 3.5.22 it is seen that in phenkanal and dispati districts the mean score in MAT of boys are significantly higher than those of girls in the respective districts. Although the mean scores of girls in the Mathematics test in Balangir and Rayagada districts are larger than the boys' mean score in those districts, the difference is not significant. Unlike other underdeveloped society where gender discrimination is a fact of life these results demonstrates a reassuming departure in that girls are nearly at par with boys so far as performance in mathematics is concerned.

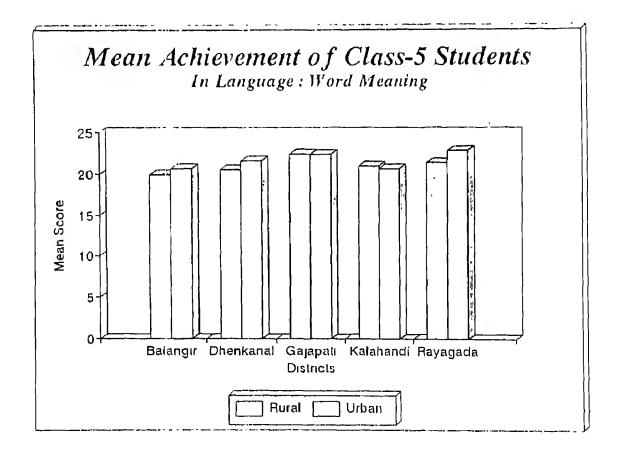
Locationwise Difference in Mathematics Achievement

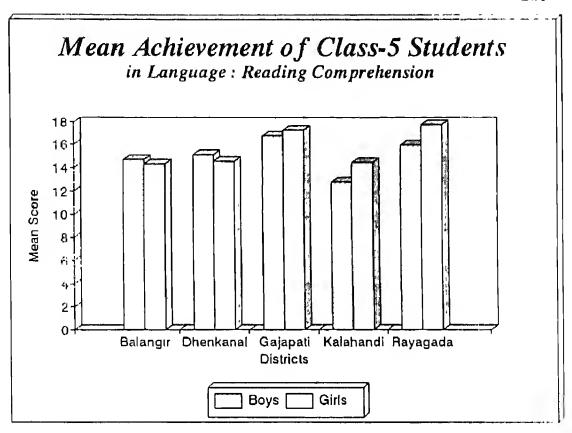
From the Table 3.5.23, it is seen that the students of urban schools are performing significantly at a higher level than the rural school children except in Balangir. Even in Balangir the children in urban schools have

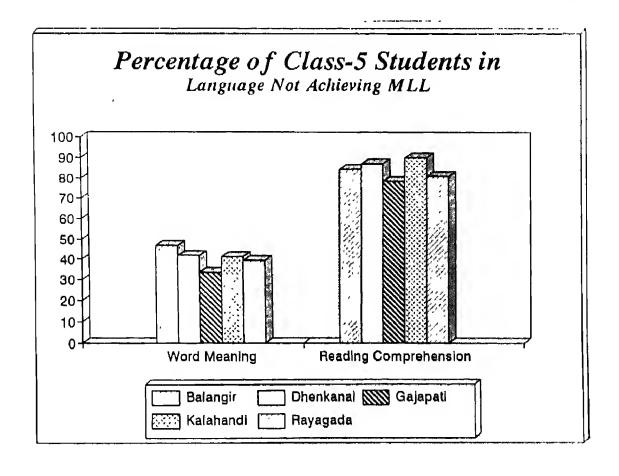
Table 3.5.20 Class-5 Students Achievement in Language (Castewise) of Different Levels

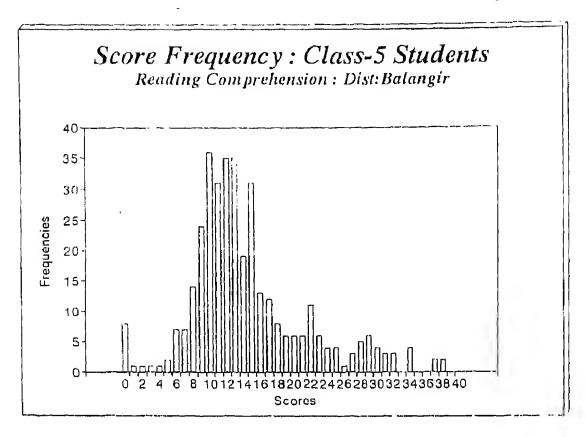
	Others	00:00	32.20	29 66	26.27	11.86	0.83	72.38	847	16 10	89
Rayagada	OBC	80	31.37	4 1 18	19 61	7.84	96 -	76.47	14.17	4 90	83
Яау	ST	80	44 30	37.97	15 19	2 53	8	89.87	10 13	85	8
	sc	1 08	52 89	25 81	16 13	4 30	000	28 17	6 45	430	<u>က</u> လ
_	Others	000	22 86	4857	25.71	286	286	12 98 71	286	853	83
Kalahandi	овс	000	4421	28 47	20 00	632	316	87.37	8 42	8	85
Kal	ST	000	46 15	3£ 46	7 69	7 69	900	00 00	986	80	8
	SC	0.00	43 88	36 69	17.95	1.44	0.72	80 Z6	5.04	4	(-)
	Others	00 0	32 67	37 33	24 67	533	000	82 43	608	g 49	8
Gajapatı	OBC	0000	30 30	39 39	27.27	3.03	000	57 06	12:12	មូវ មូវ	8.
Ğ	ST	000	27 27	18 18	45 45	60 6	000	59 09	9 03	35	၁၉၁
	SC	000	45 16	22.58	19 15	12 90	000	80 65	3.23	72.90	22
	Others	2 85	41 33	2874	20.19	6.83	285	86.70	9 65	308	i,
Dhenkanal	OBC	7 69	38 46	5385	000	80	800	92.31	18	೫೦	83
P _A	TS:	244	39 02	26 83	17.07	14 63	244	95 12	0000	244	000
	U VI	00'0	20 00	27 78	16 67	95.2	370	8 8	55 58	74	30 9
	Others	196	4314	2255	15 69	16 67	136	83.33	960	8.62	957
Balangir	OBC	357	42.86	3286	1357	7.14	82	82.98	423	7,14	5
Ba	L U	S	20.03	27.78	14.81	5.56	000	88.19	5.56	7.41	28
	C	4 55	59 09	28 79	4.55	303	3.03	87.88	7.58	152	000
	Levels	Zero	Not Achieving MLL	<u>ju</u>	Approaching Mastery	Achieving Mastery	Zero	Not Achieving MLL	Achieving MLL	Approaching Mastery	Achieving Mastery
	Area			Word Meaning					Reading Compre-		,

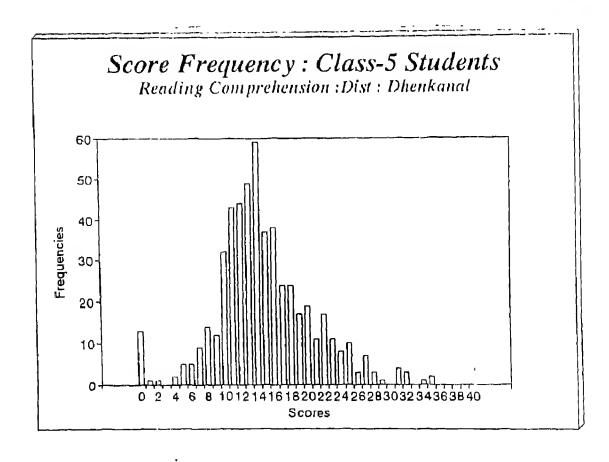


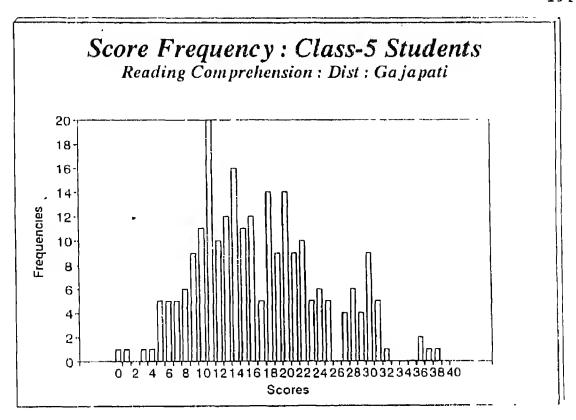


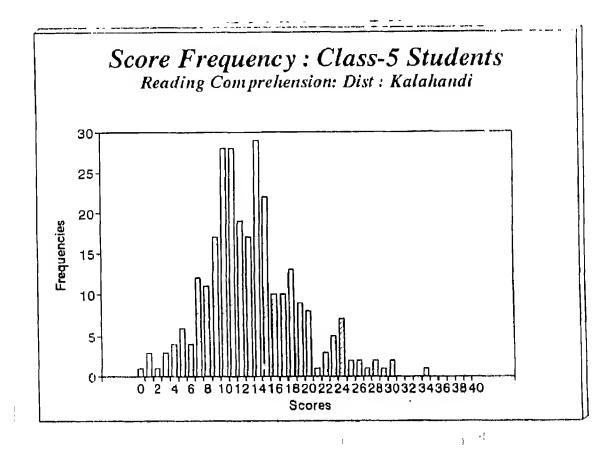


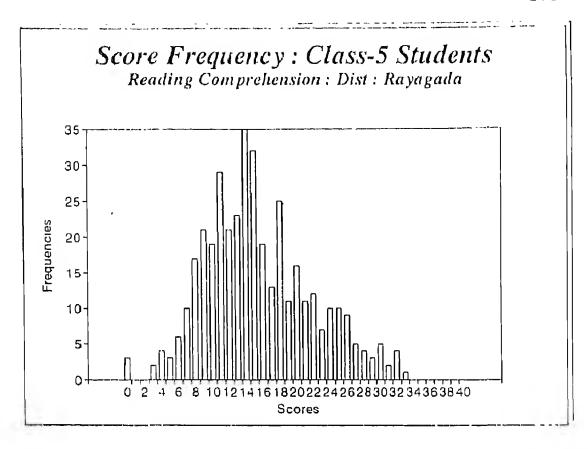


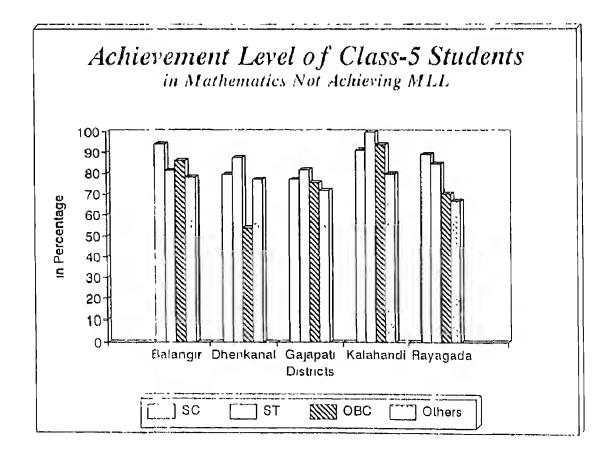


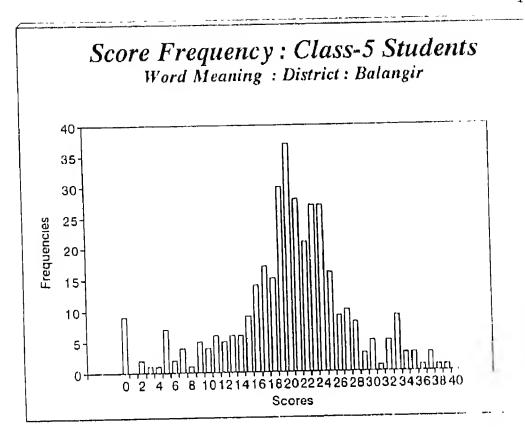


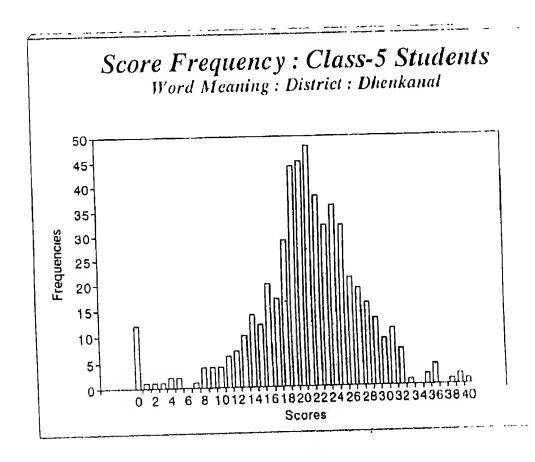


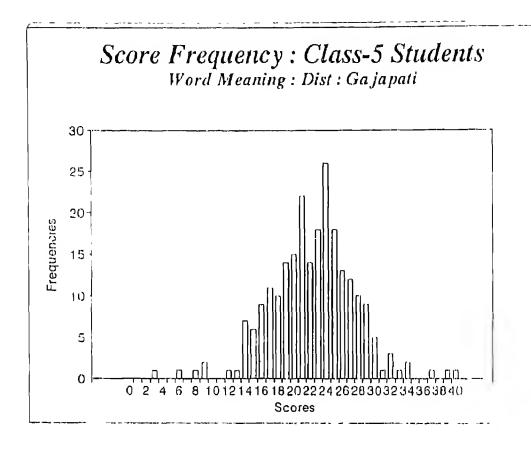


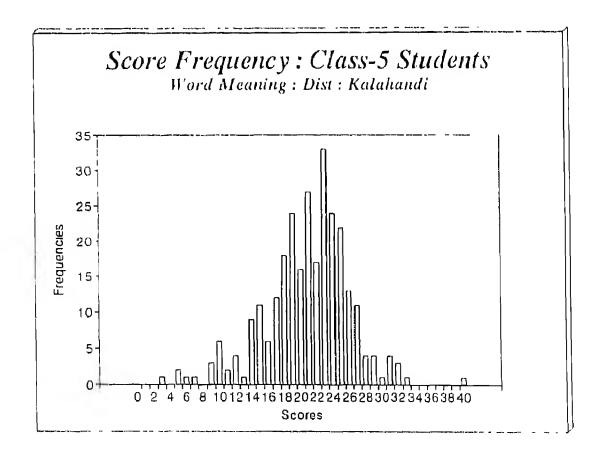


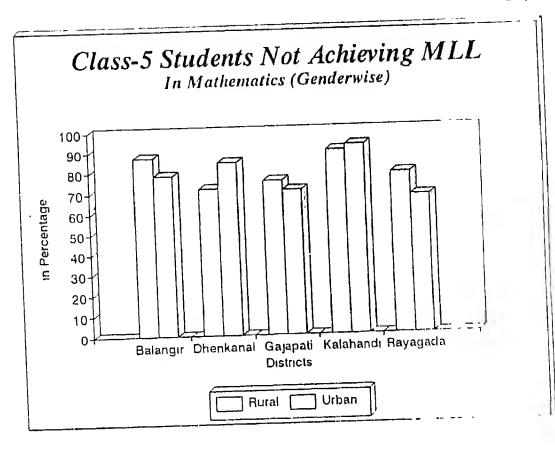


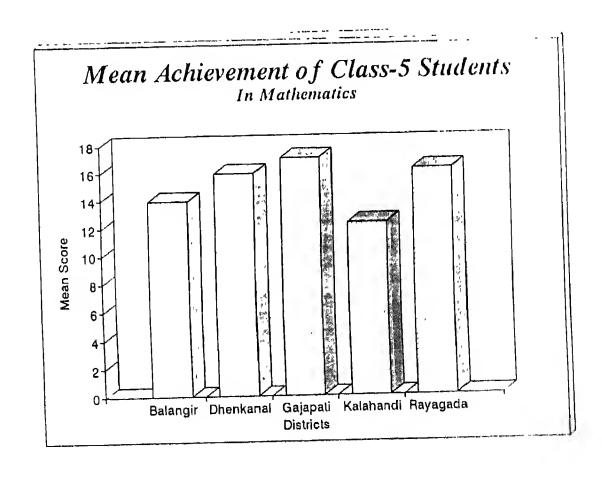


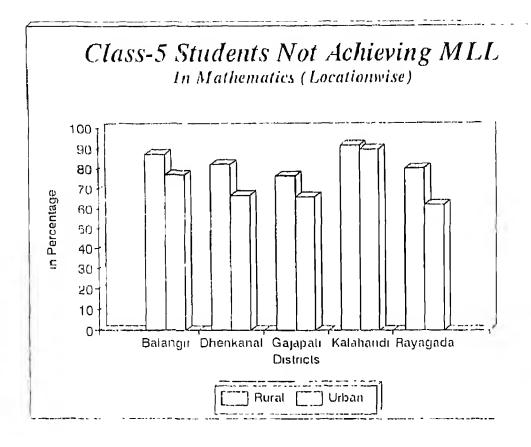












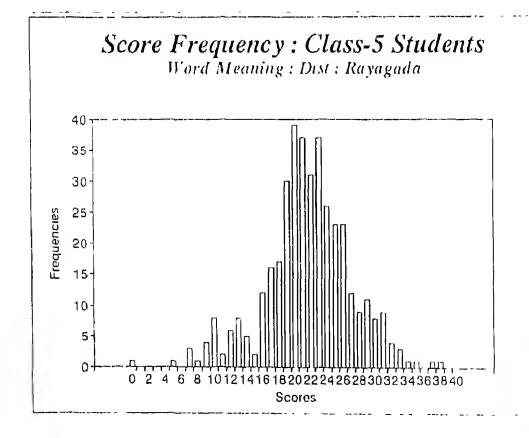


Table 3.5.22

Achievement of Class-5 Students In Mathematics (Genderwise)

Districts	Воу	/S	Gir	ls	Tol	al	
Districts	Mean	SD	Mean	SD	Mean	SD	
Balangır	13.84	5 79	14.05	6.61	13 90	6 03	
Dhenkanal	16 61	6.94	15.02	5 51	15.89	5 83	*
Gajapati	16 49	6.03	18.16	7.22	17.52	6 23	*
Kalahandı	12.01	4 95	12.86	4.95	12.41	3 31	
Rayagada	15.88	6,46	16.80	5.73	15.89	4,28	

^{*} Significant Diferences

performed better than their counterparts in the rural schools. These results go on to strengthen the common notion regarding greater effectiveness of urban schools. However such a study may be replicated with larger sample size than the one studied in this work.

Table 3.5.23

Mean Achievement of Class-5 Students in Mathematics (Locationwise)

Districts	Rur	al	Urb	an	
	Mean	SD	Mean	SD	
Balangır	13.75	5.48	14.34	7 45	
Dhenkanal	15.23	5.56	17.49	7.81	*
Gajapati	16.54	6 66	18 48	5 51	K
Kalahandi	12.10	4 89	13.57	5.22	*
Rayagada	15 64	6 12	18 45	6.30	,

^{*} Significant differences

Castewise Difference in Mathematics Achievement

The mean scores & standard deviation in Mathematics of the four groups differentiated on the basis of caste are presented in Table 3.5.24. The performance of children belonging to the general or "other" castes is demonstrably superior to other groups in every district. The significant intergroup difference are between

- 1. SC and others in all the districts.
- 2. SC/ST and others in all districts except Balangir.
- 3. SC/ST and OBC in Dhenkanal, Gajapati & Rayagada.
- 4. OBC and others in Rayagada.

Such differences might be the reflections of the disparity in their relative backwardness which requires

probing and quick remediation so as to make equity and social justice as an inalienable component of quality education.

Table 3.5.24

Mean Achievement of Class - 5 Students in Mathematics (Costewise)

_	SC		s	Υ	ОВ	2	Olli	ers -
Districts	Mean	S.D	Mean	S.D	Mean	s n	Mean	S D
Balangır	12 63	4 87	14.27	5.74	13 65	5 61	14 87	/ 27
Dhenkanal	14 61	5 00	15.61	5 81	16 07	8 5R	16 06	6 49
Gajapali	16 54	5.65	14 31	6.10	17.03	5.37	17 48	6.81
Kalahandı	11.61	4 97	11.23	3.49	12.94	4,66	13 68	5 73
Rayagada	14 09	4 77	14 65	5.35	16.88	6 72	18 22	6.69

Genderwise Levels of Mathematics Achievement

Table 3.5.25 depicts the genderwise distribution of different levels of attainment in mathematics by class 5 students. As in case langage achievement, a large percent of learners are below the MLL acquisition level. Maximum number of non-achieves are in Kalahandi (more than 90 percent). Mastery level is reached by quite a few percentage maximum being the girls of Gajapati district (11.11 percent). Except in Dhenkanal in all other districts percentage of girls attaining is more than the boys which

Table 3.5.25

Class-5 Students Achievement in Mathematics (Genderwise) of Different Levels

		Balandir			Obenkanal			Garabali		×	Kalahandi		σc	Rayagada	
-		<u> </u>)		:									
Levels	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girts	Total	Boys	Gırls	Total
Zero	1.96	2.80	2.21	4 21	1 23	2 84	122	00 0	0 85	3 78	4 12	3.90	0 37	0.00	0 25
Not Achieving MLL 87.45 78 50	87.45		84.81	71 93	84 84	77.88	75.61	70 83	74 15	90.27	92 78	91.13	78.65	67.41	74.88
Achieving MLL	5.88	10.28	7,18	11,93	8.20	10.21	14.63	8.33	12.71	3.78	1 03	2 84	8.61	24.44	13.93
Approaching Mastery	3.14	5.61	3 87	8.07	4.10	6 24	4.88	9 72	6.36	2.16	1 03	177	8.24	3.70	6 72
Achieving Mastery	1.57	2.80	1.93	3.86	- 22	2.84	3.66	11.11	5 93	00.00	183	0.35	4 12	4 44	4.23

is an encouraging trend to reckon with at the time of planning for quality learning.

Locationwise Levels of Mathematics Achievement

In the rural-urban differntiation the achievement in mathematics Table 3.5.26 demonstrates slightly higher performance by students in the urban schools although by no means the picture is as simple. The percentage of children in urban schools of Balangir, Dhenkanal and Rayagada are higher than the rural schoolgoers in class 5 while in Gajapati district the position is just the reverse. But in levels of achieveing MLL and approaching mastery urban students are in higher percentage than their rural counterparts.

Castewise Levels of Mathematics Achievement

Besides repeting the picture of high percentage of non-achievers, the castwise break up of the performance levels in mathematics (Table 3.5.27) do not exhibit any definite trend regarding the superiority of performance by any caste group. OBC groups in Dhenkanal, Gajapati and Rayagada shows slightly better performance over other groups in achieving MLL and approaching mastery. This group in Dhenkanal has the highest percentage (7.69%) of students in achieving mastery level than any other groups. The general caste (others group) group in Rayagada district demonstrates better performance in achieving the higher three levels of mathematics achievement.

Relationship between Language and Mathematics

Table 3.5.28 reveals the correlation coefficient between the scores on mathematics & language tests. The correlation coefficients have been calculated between the scores in mathematics test and the scores as components of the Language Achievement Test i.e. Word Meaning(Total) Antonym, Synonyms, Reading Comprehension (Total), factual detail, comprehension of inferences, comprehension of title/central idea and reading comprehension. Almost all,

Table 3.5.26

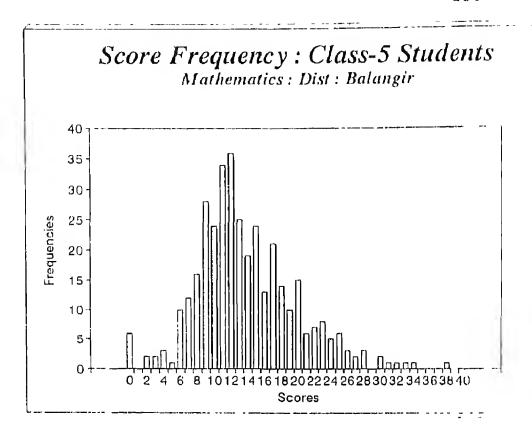
Percentage of Class-5 Students Achieving in Mathematics (Locationwise) of Different Levels

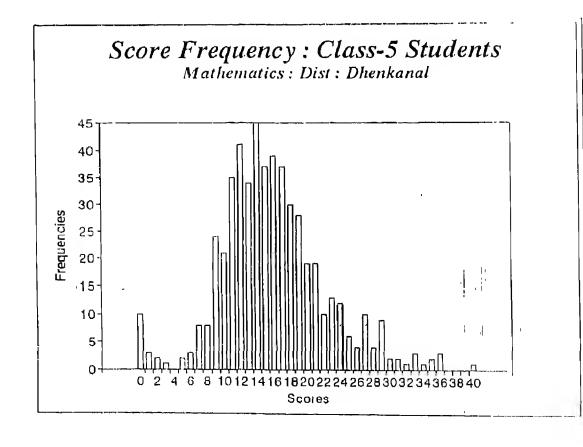
Løvels	Bala	ıngir	Dhen	kanal	Gaja	apati	Kalal	iandi	Raya	gada
Cavela	Aural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Aural	Urban
Zero	1,11	5 43	3,44	1,32	1.11	0.00	4.10	2 63	031	0 00
Not Achieving MLL	87 41	77,17	82,28	66.89	76.67	66.07	91.39	89 47	80,19	62,16
Achieving MLL	7.41	6.52	8.73	13.91	10,56	19,64	2 46	5 26	10 06	18 92
Approaching Mastery	3 33	5.43	5,03	9.23	5,56	8,93	1 64	2 63	5,35	13,57
Achieving Mastery	0 74	5.43	0.53	8 62	6.11	5 36	0.41	0.00	4.00	5 41

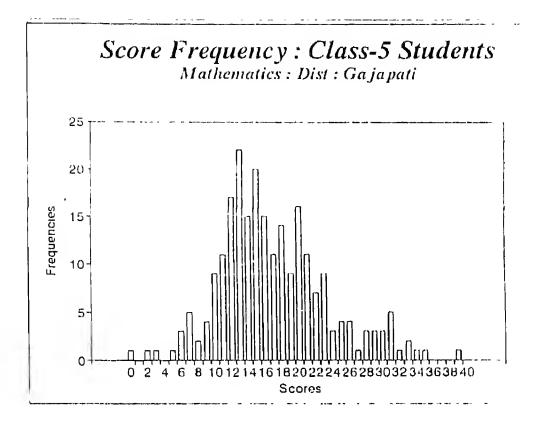
Table 3.5.27

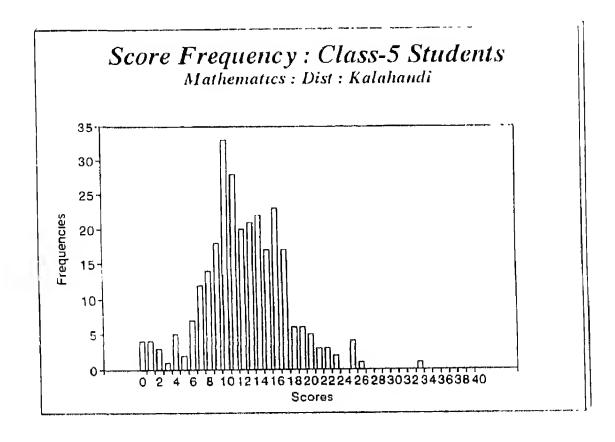
Percentage of Achievement of Class - 5 Students in Mathematics (Castewise) of Different Levels

		88	Balangır			Dhenkanal	anal			Gajapatı	oatı			Kalahandi	andi			Rayagada	jaga Jaga	Ţ
revels Levels	SC		OBC	ST OBC Others	သွ	ST	OBC	OBC Others	SC	ST	OBC Others	Others	SC	ST	0BC	OBC Others	သွ	ST	OBC Others	Others
Zero	1 52	0.00	2,86	0.00 2.86 2.94 1.85 0.00	2		7 69	309	7 69 3 09 0 00 4 55		0.00	29 0	5.04	0 00 2 11	211	571	0.0	88	000	0,85
Not Achieving MLL	93 94	81.48	86 43	93 94 81.48 86 43 78.43 79.63 87 80 53 85 77 43 77 42 81 82 75 76 72 00 91 37 100 00 93 68	79.63	87 80	53 85	77 43	77 42	81 82	75 76	72 00	91 37	00 00	93 68	90 08 08	89 25	80 00 89 25 84 25 70 59	70 59	66.95
Achieving MLL 1.52 14.81 6.43 7.84 16.67 4.88	1.52	14.81	6.43	7.84	16.67		30.77	976	16 13	3077 926 1613 455 1212 1313 144 000 211 1143 860	12 12	13 13	4	000	211	11 43	8 60	98.8	8.86 15.69 12.71	12.71
Approaching Mastery	303	3.70	2.86	5,88	1.85	4.88	0.00	0.00 7.13 3.23		9 09	60 6	600 144 000 211 286	<u> </u>	90 0	211	2 86	0.0	733	733 7.84 1186	8 =
Achieving Mastery	0.00	00'0	1.43	0,00 1,43 4,90 0 00 2 44	000		7.69	3 09	3.23	000	00.0	3 03 0.72	0.72	8	90	0.00 0.00 0.00 2.15 0.01	215	0.01	5 89	8.7









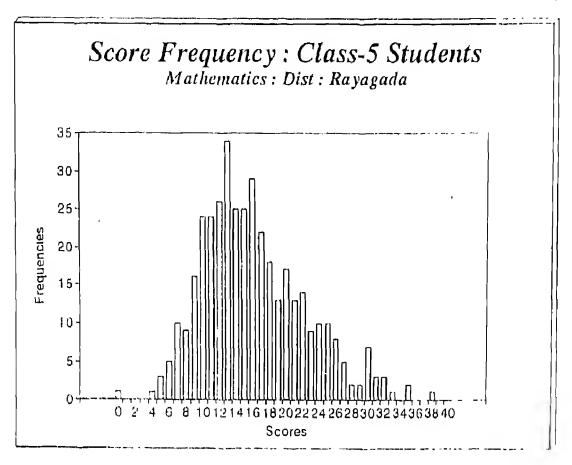


Table 3.5.28

Correlation between Mathematics and Language of Class 5 Students

Language Variable	Balangır	Dhenkanal	Gajapati	Kalahandi	Rayagada
Word Meaning Total (TOTI)	0 44	0.50 *	0 42 ¹	0 34 *	0 53 *
Word Meaning Antonyms (WMA)	0 13	0 27*	-0.05	-0.01	-0.03
Word Meaning Synonyms (WMS)	0,33	0.45	0.33	0 24	0 38 *
Reading Comprehension Total (TOT2)	0.51 *	0.57*	0 60 🎏	0.53	0 60
Reading Comprehension of Factual Detail (RCF)	031	0 30	0 34	0 29 *	0 1H
Reading Comprehension of Inferences (RCI)	0 26	0 28	0.34	0 29*	0 13
Reading Comprehension of Title/Central Idea (RCC)	0 24 *	0.20	0.24	0.25	0 08
Reading Comprehension (RCM)	0 11	0 16	0 05	0 21	0 01

^{*} Significant at 0.1 level

except three, coefficients of correlations are positive. All the coefficients of correlation between mathematics with Word Meaning total, Reading Comprehension (Total) and word meaning synonyms are significantly high. Relationship between factual detail, comprehension of inferences and comprehension of central idea are significant. three negative coefficients that are with Word Antonyms demonstrated in Gajapati, Kalahandi and Rayagada are too small hence neglected. Hence mathematics strongly correlated with all components of language Lest with Reading Comprehension of Central Idea and Reading comprehension with those the coefficient is extremely low. These findings regarding correlation between scores Mathematics and different components of language as ascentained from the students of the five districts lead to the similarity in functioning of content and process of the two subjects. This may provide valuable pointers to the curriculum planners for making the contents interrelated while making those more contextual.

In summary, the discussion on the characteristics and achievement patterns of the learners in class 5 of the districts broadly brings home a few important points. Poor enrolment of girls and children from socially disadvantaged sections, lack of basic learning materials, staggering number of below MLL achievers among other things poses serious threat for UEE in this region which has to be addressed while planning at the micro or macro levels.

CHAPTER IV

IMPLICATIONS FOR DPEP INTERVENTION

CHAPTER IV

Implication for DPEP Interventions

of the present study as discussed The findings in Chapter III are the outcomes of a systematic and indepth investigation into a set of variables, both 'malleable' and non-malleable, that are considered to have on the school quality and learner achievement. The major objectives of the Baseline Assessment Study in the context of Crissa are : (i) to assess the state and status primary schools; (ii) to measure the levels oflearner attainment on the basis of gender, location and social groups; (iii) to identify and analyse the factors that contribute to learner achievement; (iv) to examine influence of home-based and school-based factors on dropout phenomenon; and (v) to probe into the factors contributing to school effectiveness. Schools being the unit for data collection, the focus of analysis is primarily on school related variables which could be manipulated for achieving the short-term and long-term objectives οf improving school quality and effectiveness.

The idea of having uniform priorities universally applicable to all the situations and circumstances no longer holds good. Such an approach is being increasingly replaced by policies and programmes which are area specific. District specific patterns have evolved from the study. Conclusions drawn from the study have, therefore, district specific implications with little scope for generalizations. Nevertheless, a few patterns have emerged which cut across the geographic boundaries of districts. In such cases, intended policy interventions could be equally applicable to the give DPEP districts, even to the entire state.

An effort has been made in the following paragraphs to clearly identify some of the intervention strategies to facilitate an improved level of student learning in primary stage of education. The proposed intervention strategies for improved systems effectiveness could be

clustered under following major levels :

- 1. System Level Intervention
- 2. School Level Intervention
- 3. Community Level Intervention

The intended interventions at different levels will, however, cut across the important aspects of the study such as teaching and teaching learning process in the classroom, teacher characteristics and teacher development, headteacher and supervision, and school facilities and school management.

1. System Level Intervention

Orissa still follows the policy of automatic promotion in primary schools which was introduced India in the sixtles, primarily to counter the costly phenomenon of dropout and stagnation. The phenomenon of dropping out accentuales with progression 10 grades. The policy of "all promotion" does not, in fact, reduce the magnitude of dropout. It leads, on the other hand, to erosion of quality of primary education measured in of the parameter of learner achievement. Again, the present study brings into focus the glaring stop ı n the performance differences of grade II and grade V children.

Action Points

- The policy of automatic promotion irrespective of level of learner achievement should be discontinued in a phased manner.
- order to improve the quality of learner performance in terms οĒ ranged definition the MLL intervention strategy be introduced immediately in class during academic year 1996-97, with a systematic planned schme of upscaling so that MLL strategy progressively covers grade I to V by AD The experience and insights accrued from the introduction of MLL strategy in Dhenkanal and

- and pedagogic inputs. The preservice training programme needs to be redesigned.
- Highest priority needs to be accorded to inservice training. With the new institutional arrangements like BRCs, CRCs to come, the facilities for in-service training may be systematically planned.
- classroom teaching practices have continued to remain orthodox and conventional. Interaction of learner with the teacher in classroom teaching has remained feeble and marginalized. Therefore, the focus of teaching-learning process should largely be on the learner.

School Level Intervention

Action Points :

- Headteacher is viewed essentially as instructional leader of the school. Measures to be taken to get the headteacher relieved from many of the administrative responsibilities outside the school. Headteacher; have to be accountable for management of academic activities.
- study has revealed the almost non-existent The role of the headteacher with regard to supervision of classes and assessment teachers performance. This aspect needs to be strengthened reinforced. The headteachers should provide necessary academic guidance to other teachers. The new role of headteachers be redefined with shifting focus from day-to-day ritualistic administration to academic supervision leadership.
- It has been made evident from the study planning remained a low priority instructional activity with our teachers. This situation needs to be rectified without further delay. With MLL and mastery Learning in focus, planning, teaching, testing, reteaching with remediation and enrichment

- Angul districts on an R and D basis be capitalized on for statewide upscaling.
- ın the state is Poverty of primary schools Instances of buildingwidespread and universal. schools with inadequate rooms, less schools. absence of toilet facilities and unsufficient are not uncommon. However, instructional aids extent, ameliorated some scheme has, to the plight of our schools. Two policy initiatives introduced : (i) reasonably sufficient construction facilities such as provision school buildings wherever necessary, separate tollet facilities for boys and girls and provision materials; instructional essential provisions (ii) ensuring optimum utilization of non-personnel investment in created through items of expenditure. The specific action level is to link be initiated at the system instructional materials provision of teaching aids with planning of inservice training programmes to use them. DIETs have to accordingly draw up plans for in-service training for primary school teachers.
- With the adoption of NPE and POA (1986 and 1992) significant developments that the taken place is the structural and curricular uniformity. Primary school curriculum has redesigned and reoriented. Ιn this context, the minimum academic qualifications prescribed become a primary school teacher needs re-examination. The minimum qualification entry into primary teacher training institutions In the teacher allocation raised to +2. policies, these teachers should be given priority to higher grades of primary classes.
- It is widely complained that the primary teacher training curriculum has neither the breadth nor the depth. It is very weak in its practical

and formative evaluation should be the primary and unavoidable concern of teachers. Inservice teacher training programme on MLL, Joyful Learning teachers improvement to innovative should capacity building and at different planned levels be emphasised. The zone of resistance surrounding new ideas and practices be systematically knocked down teachers is to through exposing them to new ways of conducting training programmes.

- The number of women teachers is relatively small in all the DPEP districts. More number of women teachers be appointed and their services could be utilized to rope in non-enrolled children and retaining those who are enrolled. What is needed a large number of teachers from SC and ST communities.
- Time management is of over-riding importance in schools. Learning outcome is a function of effective time allocation. Teachers and headteachers have to ensure efficient time allocation on prioritized activities.

Community Level Intervention

- People have shown an urge to participate in all that happens around them affecting their life and living. The 73rd and 74th Amendments to the Constitution have opened up new possibilities. Planning has become "bottom-up" rather than 'top-down." Therefore, networking of VACs, PTAs and MTAs with schools needs to be extended and consolidated.
- Primary schools are found to have entirely subsisted on government funds. This dependency syndrome robs the school and school actors, namely, teachers of the initiative to mobilise

for additional resources in order to ward off the financial crunch. Efforts must be made by schools and the community to raise funds to make schools effective. Thus, a feeling of owning the school on the part of the community will accelerate the process of its greater and genuine participation in the affairs of the school.

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APPENDIX I

PROJECT TEAM FOR DATA COLLECTION

BALANGIR

10. Sri J. Pradhan11. Sri S.K.Behera

9. Sri G.S.Nanda

12. Sri A. Rana

Principal Investigator	1. Dr. S. I. Jena
Field Supervisor	1. Sri S.P.Patel
	2. Sri P. K. Mishra
	3. Sri N.M.Parichha
Field Investigators	1. Sri N.N.Panigrahi
	2. Sri M.K.Mishia
	3. Sri P.K.Tripathy
	4. Sri H.S.Panda
	5. Smt. N. Kar
	6. Smt. K.Ambika Nair
	7. Sri P. Udgata
	8. Sri S.K.Bishi
	9. Sri J.K.Naik

	DHENKANAL
Principal Investigator	1. Sri B. K. Patnaik
Field Supervisors	1. Sri P.K.Samantaray
	2. Sri B.N.Sahu
	3. Sri B. K. Mohanty
Field Investigators	l. Smt. S. Patnaik
	2. Smt. S. Jena
	3. Sri B.C.Swain
	4. Smt. S.R. Behera
	5. Sri B.K.Sahu
	6. Smt. B.L.Panda
	7. Sri P.K.Nayak
	8. Smt. I. Bhutia

- 10. Sri K.R.Nayak
- 11. Sri P. Nayak
- 12. Sri S. Tripathy

GAJAPATI

Field Supervisors

Field Investigators

- 1. Dr. D. Brahma
- 1. Sri K.C.Nayak
- 2. Sri S.N.Mohapatra
- 3. Sri H.N.Mohapatra
- 1. Smt. K.K.Panda
- 2. Smt. P. Sahu
- 3. Sri S.P.Patnaik
- 4. Sri T. Padhy
- 5. Sri P. Panda
- 6. Sri L. Khadagara
- 7. Sri P.C.Pradhan
- 8. Sri T.P.Panda
- 9. Sri L.K.Padhi
- 10. Sri S. Panigraht
- ll. Sri M.K.Panigrahi
- 12. Sri R.P.Behera

KALAHANDI

Principal Investigator

Field Supervisors

Field Investigators

- 1. Dr. N. K. Mishra
- 1. Sri A. K. Pattnaik
- 2. Sri T.K.Mishra
- 3. Sri L.M.Mund
- 1. Sri R.N.Das
- 2. Sri N.Senapati
- 3. Sri P.K.Patra
- 4. Sri K.C. Pradhan
- 5. Sri U.K.Sahu
- 6. Sri D. Harpal
- 7. Sri F.Mahananda
- 8. Sri F.C.Meher
- 9. Sri S.S.Panda

- 10. Sri H. Bhol
- 11. Sri S.K.Mohanty
- 12. Sri S.C.Mohapatra
- 13. Sri H.Mahananda
- 14. Sri P. K. Sahu

RAYAGADA

Principal Investigator

Field Supervisors

Field Investigators

- 1. Dr. B.C.Mohapata
- l. Sri Shyamaghana Gauda
- 2. Sri Khalli Nayak
- 3. Sri Kartikeswar Behera
- 1. Sri Om Mishra
- 2. Sri Mahendra Rout
- 3. Sri Pankaj sahu
- 4. Sri A.K.Sarangi
- 5. Sri S. Das
- 6. Sri J.K.Mishra
- 7. Sri D. Badatya
- 8. Sri P.Koteswar Rao
- 9. Sri A.K.Biswas
- 10. Sri P.K. Sahu
- 11. Sri R.K.Mishra
- 12. Sri K.M.Patnaik

APPENDIX II

LIST OF SAMPLE SCHOOLS

BALANGIR

Sai	i n	tа	1	a	
Blo	oc	k			

- 1. Belgaon Govt. Primary School
- 2. Kusumkhal Govt. Primary School
- 3. Narabahali Govt. Primary School
- 4. Babulba Govt. Primary School
- 5. Badamunda Govt. Primary School
- 6. Rengalı Kuikeda Govt. Primary School
- 7. Kharselbarji Govt. Primary School
- 8. Limpada Govt. Primary School
- 9. Chuladhora Govt. Primary School
- 10. Tentuliapada Primary School
- ll. Kudaisingha Govt. Primary School
- 12. Siba Prasad Primary School
- 13. Piprut Primary School

1. Dumerbahal Govt. Primary School

Puintala Block

- 2. Kureibana Primary School
- 3. Siletpada Primary School
- 4. Belpahali Primary School
- 5. Benubahal Primary School
- 6. Jhar Balangir Primary School
- 7. Pathala Primary School
- 8. Dumerpali Primary School
- 9. Kanakaria Primary School
- 10. Sankandha Pali Primary School
- 11. Pipirda Primary School
- 12. Jampali Primary School
- 13. Pankel Bahal Primary School

Patnagarh Block

- 1. Banai Munda Sevashram
- 2. Khuntasamalei Govt. UP School
- 3. Gargard Chhapar Primary School
- 4. Glumer Primary School
- 5. Dabkani Primary school
- 6. Kuturla Primary school

- 7. Fatamunda Primary school
- 8. Siddkimunda Primary School
- 9. Goalmora Primary School
- 10. Dumerpadar Primary School
- 11. Bindan Pathar Primary School
- 12. Bandhanbhadi Primary School
- 13. Behera Bandha Primary School
- 14. Nehena Bandha Primary School
- 15. Turlamal Primary School
- 16. Lamkar Primary School

Kantabanjhı NAC

- 1. Kantabanjhi Boys' Primary School
- 2. Ghantasahani Primary School

Titilagarh NAC

1. Patnagarh Boys' Primary School

DHENKANAI.

Kankadahad Block

- 1. Dolopasi Primary School
- 2. Gadapalasuni Primary School
- 3. Dolia Primary School
- 4. Kirtanpur Primary School
- 5. Taradanali Primary School
- 6. Tarajanga Primary School
- 7. Ghuturgaon Primary School
- 8. Dhabalipathar Primary School
- 9. Biribale: Primary School
- 10. Bramharia Primary School
- ll. Kairatangar Primary School
- 12. Kantapal Colony-4 Primary School
- 13. Birasal Primary School

Hindol Block

- 1. Banamalipur Primary School
- 2. Jharabandha Primary School
- 3. Khanditiri Primary School
- 4. Sinkol Primary School
- 5. Tarkabeda Primary School
- 6. Dandiri Primary School
- 7. Harihat Primary School
- 8. Nuataila Primary School

- 9. Sanamunda Primary School
- 10. Nuapatna Primary School
- 11. Bhagalpur Primary School
- 12. Gurilo Primary School
- 13. Karanda Primary School
- 14. Bangu Primary School
- 15. Jharbeda Primary School
- 16. Bhakarpur Primary School
- 17. Hatura Primary School
- 18. Kukuta Primary School
- 19. Shyam Sunderpur Primary School

Kamakhyanagar NAC

- 1. Alatuma Primary School
- 2. Model Primary School

Rhubana NAC

1. Talankaberini Primary School

GAJAPATI

R. Udayagırı

- 1. Sundruba Primary Schol
- 2. R. Udayagir Primary School
- 3. Mangarajpur Primary School
- 4. Ramgiri Primary School
- 5. Chelligada Primary School
- 6. Parisala Primary School.
- 7. Bastriguda Primary School
- 8. Christian Street Primary School, Ramgiri
- 9. Arsi Sali Primary School
- 10. Rumunda Primary School
- 11. Hatapada Primary School
- 12. Tarapada Primary School
- 13. S. Gudisahi Primary School
- 14. K.M.Bhaliasahi Primary School
- 15. Padmapur Primary School
- 16. P.Sailong Primary School
- 17. N. Sailong Primary School

Block

- Paralakhemindi l. Saura Routapur Primary School
 - 2. Vinala Primary School
 - 3. Bada Hamasa Primary School

- 4. Mandal Devi Primary School
- 5. Rajpur Primary School
- 6. Kaithada Primary School
- 7. New Kerandi Primary School
- 8. Dr. Banjar Primary School
- 9. Deviti Primary School
- 10. Oriya Boys Primary school, Gurandi
- ll. Uppalada Primary school
- 1?. Oriya Primary school, Garabandh
- 13. Haltapada Primary school
-]4. Kathalkatha Primary School

Kashinagar NAC 1. New Varanasi Primary School

- 2. Kashinagar Boys Primary School
- 3. Brahmana Street Primary School
- 4. Block Colony Primary School

KALAHANDT

Lanjigarh Block

- 1. Dangargaon Primary School
- 2. Badibahal Primary School
- 3. Siudhibahal Primary School
- 4. Jagannathpur Primary School
- 5. Talbora Primary School
- 6. Raghunathpur Primary School
- 7. Pokharibandha Primary School
- 8. Sitapur Primary School
- 9. Bilatopada Primary School
- 10. Block Colony Primary School
- 11. Pengswar Primary School

- Koksara Block 1. Gadaramal Primary School
 - 2. Chitamunda Primary School
 - 3. Bijmora Primary School
 - 4. Nuapada Primary School
 - 5. Khuntia Primary School
 - 6. Mohima Primary School
 - 7. Temra Primary School
 - 8. Gatsandh Primary School
 - 9. Sunamal Primary School
 - 10. Majhursahi Primary School

ll. Kandapara Primary School

Bhawanipatna Block

- 1. Turpi Primary School
- 2. Gurjang Primary School
- 3. Pandigaon Primary School
- 4. Bandhapada Primary School
- 5. Pastipada Primary School
- 6. Dughripadar Primary School
- 7. Sardhapur Primary School
- 8. Kamathana Primary School
- 9. Attanguda Primary School
- 10. Kulerguda Primary School
- ll. Gananathpur Primary School
- 12. Dungiparga Primary School
- 13. Kalan Primary School
- 14. Karla Soda Primary School
- 15. Kenduguda Primary School
- 16. Dakıbandal Primary School
- 17. Dumerbahal Primary School
- 18. Goipeta Primary School

Kesinga NAC

1. Sanpada Primary School

Junagarah NAC

1. Centre Primary School, Junagarh

RAYAGADA

Muniguda Block

- 1. Merring Primary School
- 2. S.N.Dey Primary School
- 3. Gatiguda Primary School
- 4. Dangibadi Primary School
- 5. Kumudabali Primary School
- 6. Deokupali Primary School
- 7. Jophi Primary School, Ambadola 👞
- 8. Station Kumudabali Primary School
- 9. Ichhapur Primary School
- 10. Harijan Street Primary School

Gudari Block

- 1. Dambapendili Primary School
- 2. Muliput Primary School
- 3. Baliguda Primary School
- 4. Jalanidhi Primary School
- 5. Salini Primary School
- 6. Depaguda Primary School
- 7. Asoda Primary School
- 8. Badiguda Primary School
- 9. Lokanath Primary School

Kolanara Block

- 1. Madanpur Primary School
- 2. Manjhola Primary School
- Badachampia Primary School
- 4. Hatikhamba Primary School
- 5. Shevashram Primary School
- 6. Deopur Primary School
- 7. Bhujabal Primary School
- 8. Brahmana Street Primary School
- 9. Dakuluguda Primary School
- 10. Imphal Primary School
- 11. D.P.Camp Primary School, Therunalli
- 12. Satipur Primary School
- 13. Kartikaguda Primary School

Gunupur NAC

- 1. Kartika Street Primary School
- 2. SAP Bidyapitha Primary School
- 3. Matia Street Primary School

Gudari NAC

- 1. Block Colony Primary School
- 2. Ex-Board Primary School, Gudari

Table 3.3.1

Percentage Distribution of Dropouts (Genderwise)

Districts	Boys	Girls	Total
Balangir	68 52.31	62 47,69	130
Dhenkanal	50 64 94	27 35 06	77
Gajapatı	20 58.82	14 41.18	34
* Kalahandı	47 59 49	32 40.51	79
Rayagada	32 41 03 ·	46 58 97	78

Table 3.3.2

Percentage Distribution of Dropouts (Locationwise)

Districts	Rural	Urban	Total
Balangır	121 93,07	0 <i>9</i> 6,93	1.30
Dhenkanal	75 97.40	0 2 2.60	77
Gajapati	2 9 85 29	0.5 14.71	34
Kalahandi	77 97.47	0.2 2,53	7910.
Rayagada	69 88 46	09 11.54	78